

FILE NOTATIONS

Entered in NID File

☒

Entered On S R Sheet

☐

Location Map Pinned

☒

Card Indexed

☒

I W R for State or Fee Land

☐

Checked by Chief

PWB

Copy NID to Field Office

☐

Approval Letter

8-15-66

Disapproval Letter

☐

COMPLETION DATA:

Date Well Completed

9/15/66

Location Inspected

☐

OW

WW

TA

PA

Bond released

OW

OS

PA

PA

State of Fee Land

☐

LOGS FILED

Driller's Log

10/27/66

Electric Logs (No. 1)

5

E

I

BI

(2)

GR

GRN

Micro

Lat

M-L

Sonic

Others

Acoustilog (2)

8

Monsanto

C O M P A N Y

HYDROCARBONS & POLYMERS DIVISION

900 Patterson Building
Denver, Colorado 80202
(303) AComa 2-5641

August 11, 1966

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah 84111

Attention: Mr. Cleon B. Feight
Executive Director

Re: Application for Exception
Location for Geological
Reasons, McElmo Mesa Pool,
South Ismay No. 5, Drilling
Unit No. 7, Sec. 5, T41S, R26E,
San Juan County, Utah

Gentlemen:

Monsanto Company respectfully request an exception to the Order issued in Cause No. 109-1 to allow the captioned South Ismay No. 5 to be located in the SW $\frac{1}{4}$, NE $\frac{1}{4}$, NW $\frac{1}{4}$ of Section 5, Township 41 South, Range 26 East, San Juan County, Utah. The exception is being requested for geological reasons.

Cause No. 109-1 provides for well locations not less than 500 feet from the legal subdivision. Provision is also made for granting exception locations without notice or hearing, for topographical reasons, and with consent of offset operators.

In view of the erratic nature of this reservoir and the nearby dry hole located in the SW $\frac{1}{4}$, SW $\frac{1}{4}$ Section 32, Township 40 South, Range 26 East, it is geologically indicated that the prescribed location limits would more than likely encounter oil and gas in marginal or non-commercial quantities.

March 11, 1965

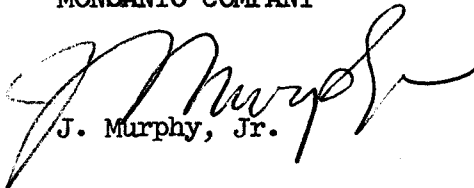
56

A well drilled in the proposed location will more than likely encounter oil and gas in commercial quantities, and thereby protect correlative rights and prevent the drilling of an unnecessary well in the prescribed location.

Monsanto Company respectfully requests approval of the application without notice or hearing. Attached is a letter stating no objection to the proposed location from all offset operators.

Very truly yours,

MONSANTO COMPANY


J. Murphy, Jr.

JM:vjs

Monsanto

C O M P A N Y

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Denver, Colorado 80202
(303) AComa 2-5641

August 11, 1966

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348 East South Temple
Suite 301
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Attention: Mr. Cleon B. Feight
Executive Director

Re: Monsanto Company South Ismay #5
McElmo Mesa Pool
Sec. 5, T41S, R26E
San Juan County, Utah

Gentlemen:

Please be advised that the undersigned, as interested owners in the McElmo Mesa Pool, have no objection to Monsanto Company's application for an exception to Cause 109-1 by locating the captioned well in the SW/4 NE/4 NW/4 Sec. 5, Township 41 South, Range 26 East, San Juan County, Utah.

It is understood that Cause No. 109-1 provides that no well will be located within 500 feet from the exterior boundary of the legal subdivision unless topographical reasons prevent compliance. In this event, an exception may be granted without hearing or notice with the consent of offset operators. It is also understood that the proposed location is being requested for geological reasons. The undersigned also waives notice of hearing and respectfully request approval of Monsanto's application.

Texaco, Inc.

By J. F. [Signature]

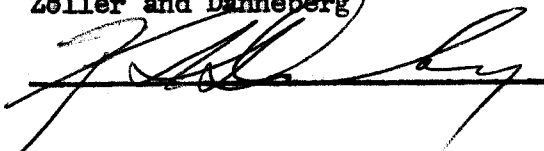
Pan American Petroleum Corporation

By Sidney B. [Signature]

W 2

The State of Utah
Page 2
August 11, 1966

Zeller and Darnenberg



Kimbark Exploration, Ltd.

By

William P. Hurst C.P.

Warrior Oil Company

By

Joseph B. Ober

Monsanto

C O M P A N Y

HYDROCARBONS & POLYMERS DIVISION

900 Patterson Building
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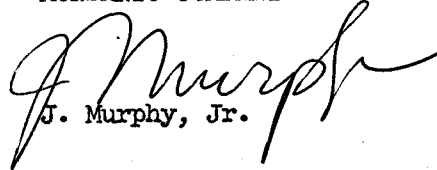
70

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MONSANTO COMPANY


J. Murphy, Jr.

JM:vjs

21

Monsanto

C O M P A N Y

HYDROCARBONS & POLYMERS DIVISION

900 Patterson Building
Denver, Colorado 80202
(303) ACOMA 2-5641

August 11, 1966

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Texaco, Inc.

By J. J. [Signature]

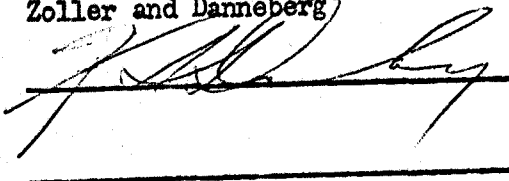
Pan American Petroleum Corporation

By Edmund B. [Signature]

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The State of Utah
Page 2
August 11, 1966

Zoller and Danneberg



Kimbark Exploration, Ltd.

By William P. Hunter C.P.

Warrior Oil Company

By Jorge B. Ober

Monsanto

COMPANY

HYDROCARBONS & POLYMERS DIVISION

900 Patterson Building
Denver, Colorado 80202
(303) ACome 2-5641

August 11, 1966

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah 84111

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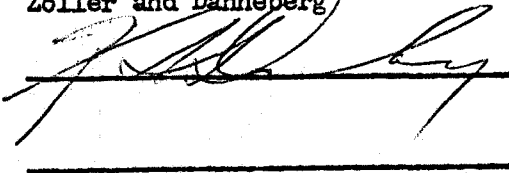
By J. F. [Signature]

Pan American Petroleum Corporation

By Samuel B. [Signature]

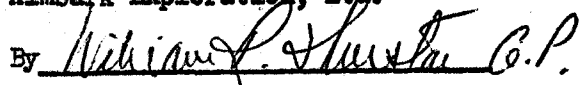
The State of Utah
Page 2
August 11, 1966

Zoller and Danneberg



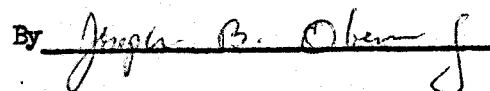
Kimbark Exploration, Ltd.

By

 C.P.

Warrior Oil Company

By



MONSANTO COMPANY
HYDROCARBONS DIVISION
300 PATTERSON
DENVER, COLORADO 80202

August 11, 1966

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah 84111

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Executive Director

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Location For Geological
Reasons, McElroy Mesa Pool,
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Unit No. 7, Sec. 5, T41S, R26E,
San Juan County, Utah

Gentlemen:

Monsanto Company respectfully request an exception to the Order issued in Cause No. 109-1 to allow the captioned South Ismay No. 5 to be located in the SW $\frac{1}{4}$, NE $\frac{1}{4}$, E $\frac{1}{2}$ of Section 5, Township 41 South, Range 26 East, San Juan County, Utah. The exception is being requested for geological reasons.

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In view of the erratic nature of this reservoir and the nearby dry hole located in the SW $\frac{1}{4}$, SE $\frac{1}{4}$ Section 32, Township 40 South, Range 26 East, it is geologically indicated that the prescribed location limits would more than likely encounter oil and gas in marginal or non-commercial quantities.

44

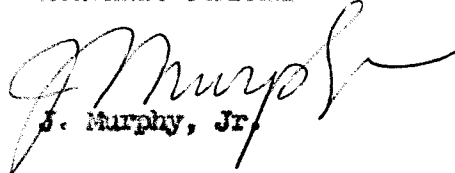
MONSANTO COMPANY
HYDROCARBONS DIVISION
800 PATTERSON
DENVER, COLORADO 80202

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Very truly yours,

MONSANTO COMPANY


J. Murphy, Jr.

JM:vjs

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-708
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
2. NAME OF OPERATOR Monsanto Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 900 Patterson Building, Denver, Colorado 80202		8. FARM OR LEASE NAME Navajo A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface NE NW or 990 FWL and 1650 FWL At proposed prod. zone Vertical Hole		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 miles South of Ismay Trading Post		10. FIELD AND POOL, OR WILDCAT McKinnon Mesa Development
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 990		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T41S, R2E
16. NO. OF ACRES IN LEASE 2560'		12. COUNTY OR PARISH San Juan
17. NO. OF ACRES ASSIGNED TO THIS WELL 50		13. STATE Utah
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1200		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4900 GL (Est.)		22. APPROX. DATE WORK WILL START* August 16, 1966

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13 3/8	48.0#	120'	140 sacks
12 1/2"	8 5/8	24.0#	1700'	170 sacks

Production casing, if run, will be 5 1/2" OD 15.5# J-55 S&WAC set through pay and sufficiently cemented to confine all oil, gas and water bearing strata.

Well location survey plate will be mailed by the surveyor to U.S.G.S. District Office in Farmington, New Mexico and the Oil & Gas Conservation Commission in Salt Lake City, Utah.

(Utah Copies - Well name has been changed from So. Ismay No. 5 to Navajo A No. 1.)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE **District Production Supt.** DATE **August 12, 1966**
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 miles South of Ismay Trading Post			10. FIELD AND POOL, OR WILDCAT McElmo Mesa
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 990	16. NO. OF ACRES IN LEASE 2560'	17. NO. OF ACRES ASSIGNED TO THIS WELL 80	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1200	19. PROPOSED DEPTH 5800'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4900 GL (Est.)			22. APPROX. DATE WORK WILL START* August 16, 1966

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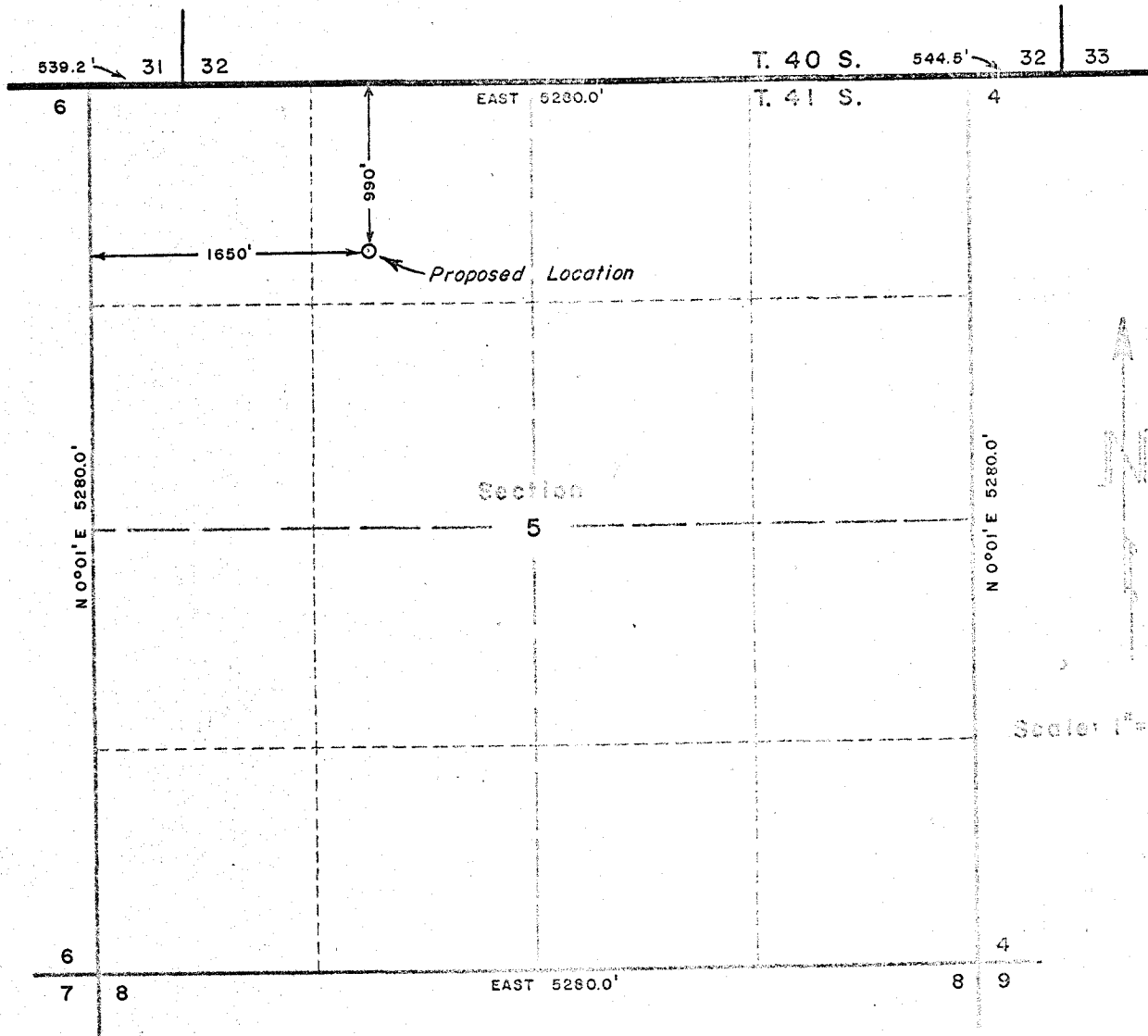
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24. SIGNED [Signature] TITLE **District Production Supt.** DATE **August 12, 1966**
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



WELL LOCATION: Monsanto Company - Navajo "A" No. 1

Located 990 feet South of the North line and 1650 feet East of the West line of Section 5,
 Township 41 South, Range 26 East, Salt Lake Base & Meridian,
 San Juan Co., Utah

Existing ground elevation determined at 4921 feet based on U.S.G.S.

I hereby certify the above plat represents a survey
 made under my supervision and that it is accurate
 to the best of my knowledge and belief.

Frederick H. Reed

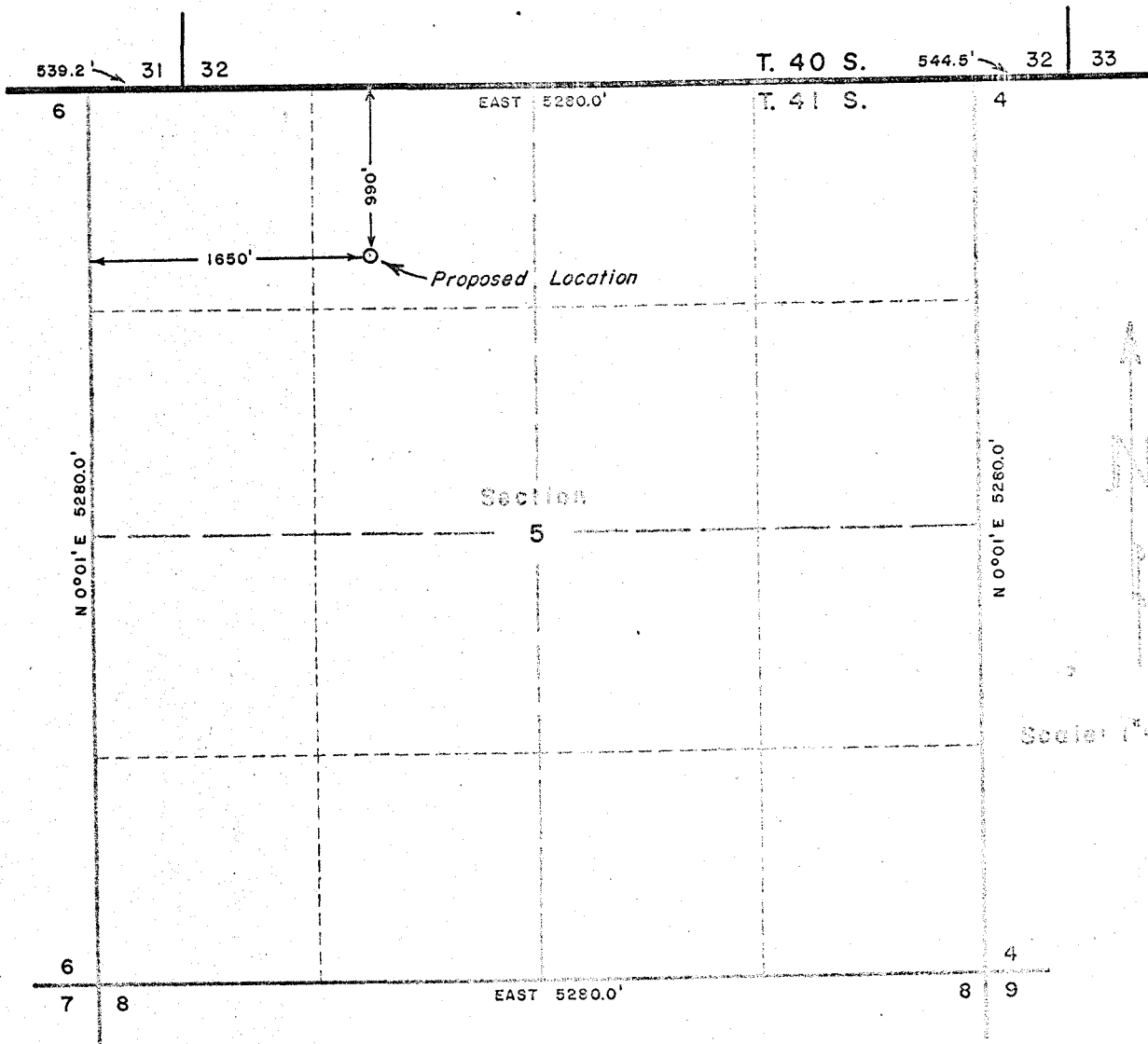
FREDERICK H. REED
 Registered Land Surveyor
 State of Utah #2689

MONSANTO COMPANY
 Denver, Colorado

WELL LOCATION PLAT
 Sec. 5 - T. 41 S. - R. 26 E.
 San Juan Co., Utah

CLARK-REED & ASSOC.
 Denver, Colorado

DATE Aug. 12, 1966
 FILE # 66078



WELL LOCATION: Monsanto Company - Navajo "A" No. 1

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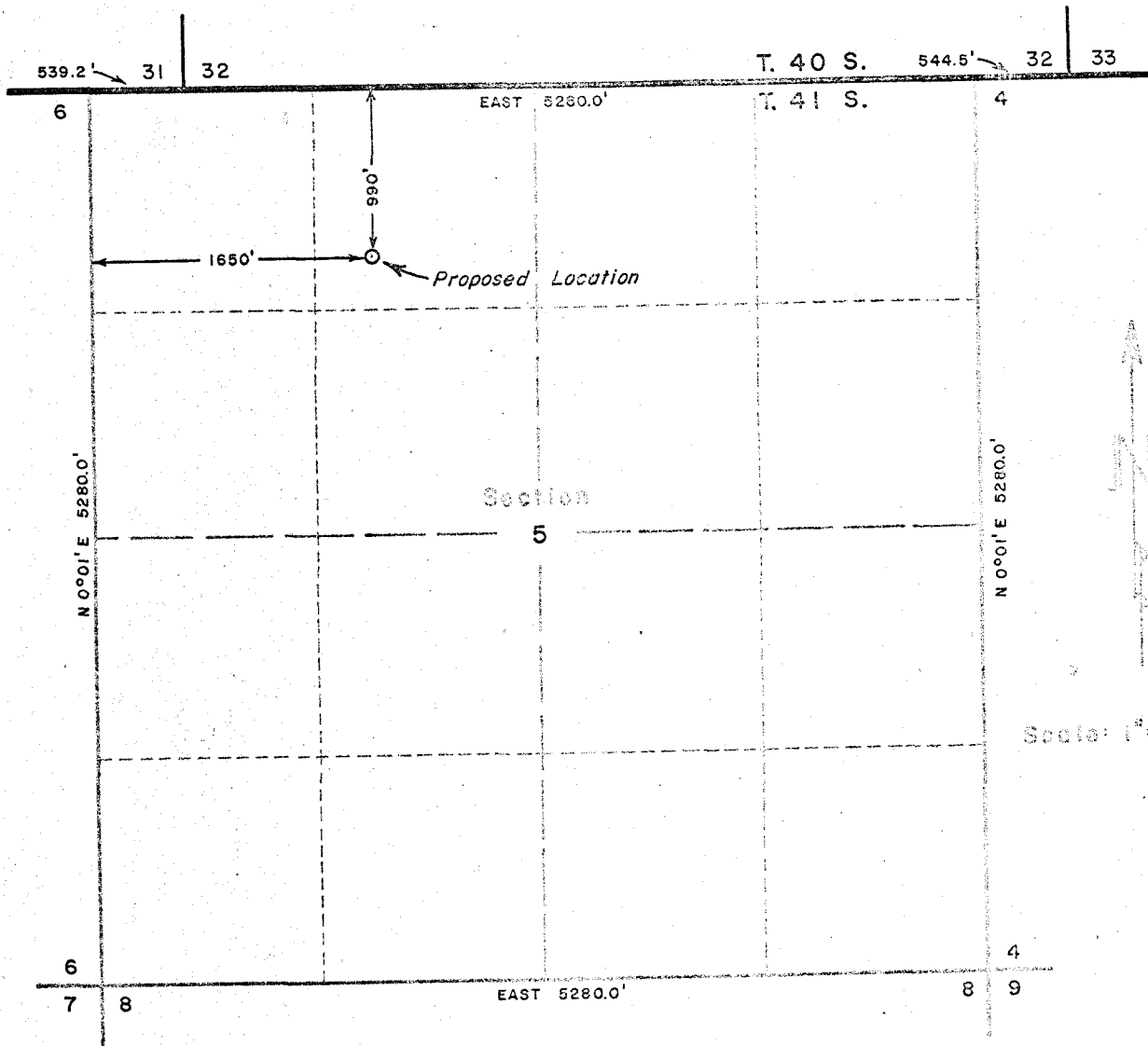
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MONSANTO COMPANY
 Denver, Colorado

WELL LOCATION PLAT
 Sec. 5 - T. 41 S. - R. 26 E.
 San Juan Co., Utah

CLARK - REED & ASSOC.
 Denver, Colorado

DATE: Aug. 12, 1966
 FILE NO. 66078



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 State of Utah #2689



MONSANTO COMPANY
 Denver, Colorado

WELL LOCATION PLAT
 Sec. 5 - T. 41 S. - R. 26 E.
 San Juan Co., Utah

CLARK-REED & ASSOC.
 Durango, Colorado

DATE: Aug. 12, 1966
 FILE NO. 66078

35

August 15, 1966

Monsanto Company
900 Patterson Building
Denver, Colorado 80202

Re: Well No. Navajo 'A' - #1,
Sec. 5, T. 41 S., R. 26 E.,
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted in accordance with the Order issued in Cause No. 109-1, on March 11, 1965, and with your letter dated August 11, 1966.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer
HOME: 277-2890 - Salt Lake City, Utah
OFFICE: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days of the well has not been spudded-in within said period. Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

The API number assigned to this well is 43-037-20117 (see Bulletin D12 published by the American Petroleum Institute).

Very truly yours,
OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:ah

cc: P. T. McGrath, District Engineer, USGS
Farmington, New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESV. ☐ Other _____

2. NAME OF OPERATOR

Monsanto Company

3. ADDRESS OF OPERATOR

900 Patterson Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

NE NW or 990' FNL & 1650' FWL

At top prod. interval reported below

At total depth Vertical Hole

14. PERMIT NO. DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-708

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo "A"

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

McElmo Mesa

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 5, T41S, R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.)

8/24/66

9/15/66

4937 KB

18. ELEVATIONS (DF, R&B, RT, GR, ETC.)*

4925'

20. TOTAL DEPTH, MD & TVD

5800

21. PLUG, BACK T.D., MD & TVD

5743

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

5800'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Ismay 5602-5734

25. WAS DIRECTIONAL SURVEY MADE
Max. Dev. 2 deg.
at 1746 & 2140

26. TYPE ELECTRIC AND OTHER LOGS RUN

Lane Wells 9/16/66 - IES & GR Acoustilog

27. WAS WELL CORED

Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48.0#	135	17"	150 sx. reg. 2% CaCl.	None
4 1/2"	10.5#	5798	7 7/8"	100 sx. 50-50 Poz. "A"	None
				60 sx. reg. w/Latex	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	5690	-

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

5683-88 4" NCF 10 Holes
5636-52 4" NCF 32 Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5683-88	1500 Gal. HCL
5683-88; 5636-52	3000 Gal. HCL

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
9/23/66		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/2/66	18	--	→	110	110	243	1000
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
--	--	→	147	147	324	44	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented ✓

TEST WITNESSED BY

J. E. Guthrie

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE District Engineer

DATE

10/20/66

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ismay	5610	5665	DST #1 Rec. 40' mud, 20' SGCM, 90' HGCM, 120' HG & SOCM, 1st FP 11# in 10 min., 1st SIP 1884# in 30 min, 2nd FP 11# - 140# in 45 min., 2nd SIP 1929# in 90 min., 3rd FP 140# - 169# in 60 min., 3rd SIP 1982# in 120 min.
Ismay	5674	5687	DST #2 Rec. 10' drilling mud, 1st FP 5# in 5 min., 1st SIP 480-507 in 120 min., Final flow 6# to 23# in 120 min., FSIP 521# in 120 min.
Ismay	5687	5697	Core #1 1' ls. pin point por., fair flor. 6' ls. gray, tight, N.S.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Navejo	1060	1060
DeChelly	2800	2800
Hermosa	4668	4668
Ismay	5602	5602
Desert Creek	5780	5780

1969 JUL 21 1000

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Navajo A-1

Operator Monsanto Company Address 900 Patterson Bldg. Phone 222-5641
Denver, Colorado
P. O. Box 2146

Contractor Cactus Drilling Corporation Address Farmington, N. Mex. Phone 325-6631

Location SW NE NW
1/4 1/4 Sec. 5 T. 41 XX R. 26 E San Juan County, Utah.
S XX

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. Top Navajo	1060-1310	Not Measured	Not Available
2. Top DeChelly	2800-2850	Not Measured	Not Available
3.			
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops:

Hermosa	4658	Bottom Ismay	5732
Upper Ismay	5579	Desert Creek	5779
Lower Ismay	5681	TD	5804

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform the Commission.
 - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

27

Monsanto
C O M P A N Y

HYDROCARBONS & POLYMERS DIVISION

900 Patterson Building
Denver, Colorado 80202
(303) AComa 2-5641

December 1, 1966

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple - Suite 301
Salt Lake City, Utah 84111

Attention: Mr. Cleon B. Feight
Executive Director

Re: Gas-Oil Ratio Test
Monsanto-Navajo A-1
McElmo Mesa Pool
San Juan County, Utah

Gentlemen:

In compliance with Rule C-19, the following is the gas-oil ratio test on the recently completed Navajo A-1.

Date:	November 2, 1966
Test Time:	24 Hours - Pumping
BOPD:	121
MCFPD:	139
GOR:	1150
Percent Water:	65%

Very truly yours,

MONSANTO COMPANY


E. M. Scholl

EMS:rp

22

Monsanto

HYDROCARBONS & POLYMERS DIVISION

Monsanto Company
Suite 1102 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80203
(303) AComa 2-5641

December 30, 1968

The State of Utah
Oil & Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight
Executive Director

Re: Application for Water Disposal
Monsanto Company Navajo A-1 ✓
990' FNL, 1650' FWL Section 5
Township 41 South, Range 26 East
McElmo Mesa Field
San Juan County, Utah

Gentlemen:

Monsanto Company respectfully requests approval to dispose of water into the Ismay Interval of the Navajo A-1 in McElmo Mesa Field, San Juan County, Utah.

Produced water is presently being disposed into Monsanto Navajo A-3 under the provisions of the Commission's Order No. 125-1. Water production now exceeds the capacity of Navajo A-3 and it is necessary to convert Navajo A-1 to disposal service. Navajo A-1 is near its economic limit producing 10 BOPD at 90% water.

In compliance with Rule C-11 the following is submitted:

1. Attached is a plat showing the location of the proposed disposal well including all wells in the McElmo Mesa Area.
2. The names of lessees within one-half mile of the proposed disposal well are also attached.
3. It is proposed to inject water into the Ismay interval of the Paradox formation in the Hermosa Group located from 5626' to 5734' on the Lane Wells Acoustilog. Depths are measured from the rotary bushing elevation of 4937' above sea level. A copy of a portion of this log is attached.
The Ismay interval is a vugular type limestone and dolomite rock.

The State of Utah
Page 2
December 30, 1968

4. A diagram of the casing is attached. Navajo A-1 was drilled in September 1966, and completed with $4\frac{1}{2}$ " casing set with 160 sacks of cement and successfully pressure tested.
5. At the present time, it is proposed to inject about 400 barrels of water per day produced from wells in the McElmo Mesa Field. Maximum anticipated injection rate is 1500 barrels per day. From time to time it may be necessary to dispose of waters from present or future wells in the nearby area but not necessarily in the McElmo Mesa Field.
6. Attached is a certification that copies of this Application have been sent by registered mail to each lessee listed within one-half mile radius of the proposed injection well.

Monsanto Company respectfully submits this Application and hopes the Commission will approve water disposal into Navajo A-1 under the provisions of Rule C-11 of the General Rules and Regulations.

The United States Geological Survey has approved disposal into Navajo A-1 subject to like approval from the Oil and Gas Conservation Commission.

Very truly yours,

MONSANTO COMPANY

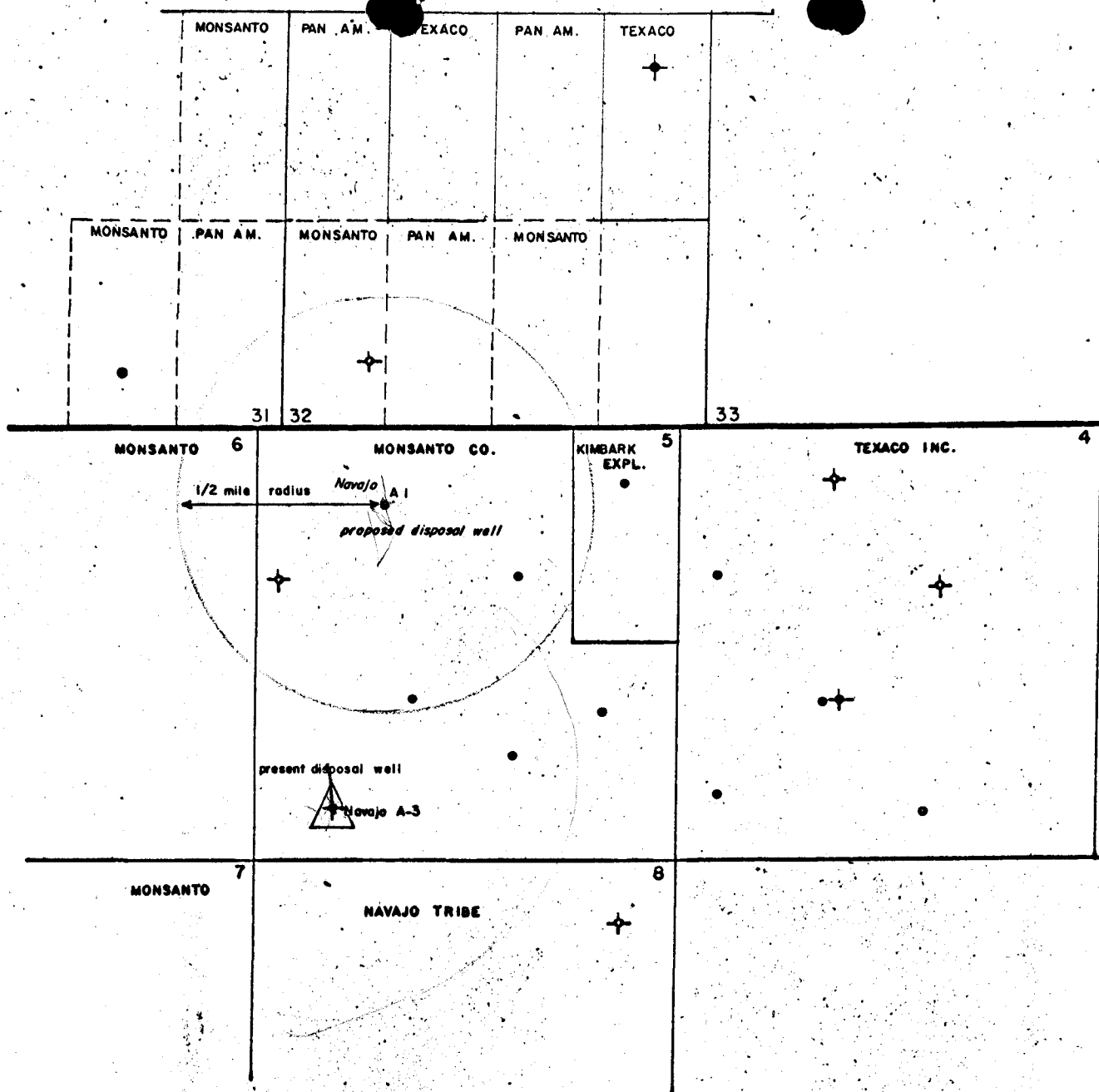


E. M. Scholl

EMS:rp

Attachments

63



MC ELMO MESA FIELD

San Juan County, Utah

Scale : 1" = 2000'

PROPOSED DISPOSAL WELL PLAT

EXHIBIT I

EXHIBIT 3

MONSANTO CO.-NAVAJO A-1

Portion of Lane Wells Acoustilog for
Proposed Disposal Well
MC ELMO MESA FIELD
San Juan County, Utah

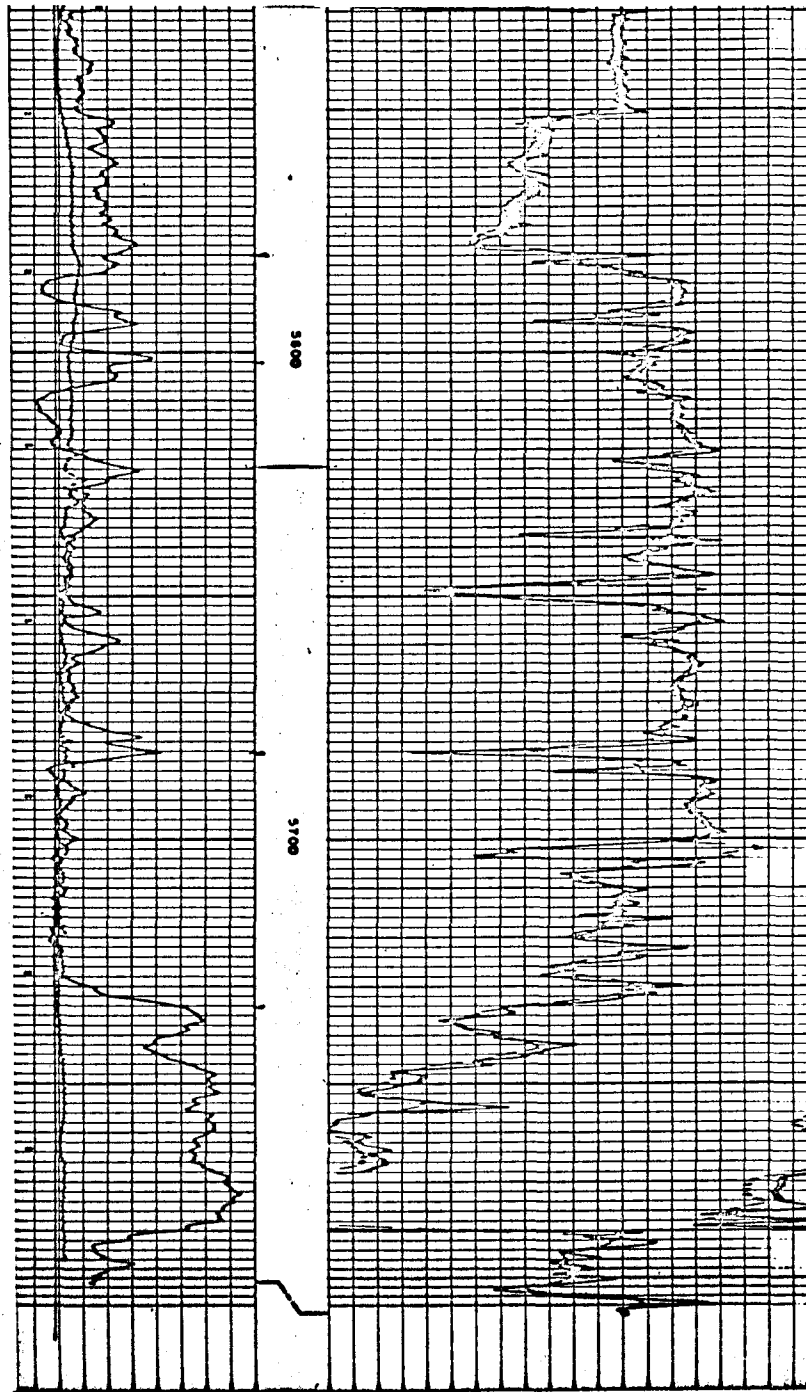
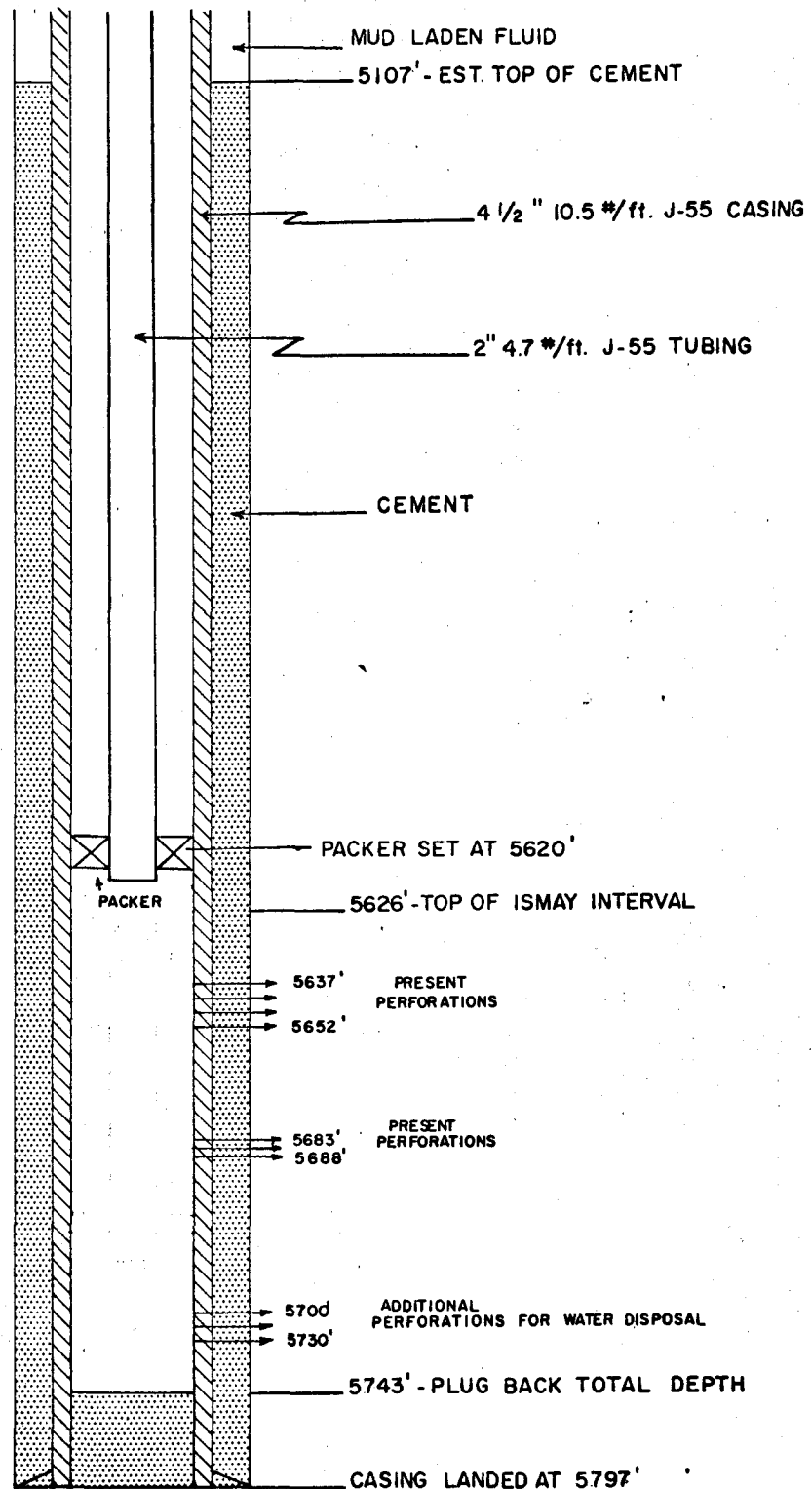


EXHIBIT 4
CASING DIAGRAM
MONSANTO CO.- NAVAJO A-1
 MC ELMO MESA FIELD
 San Juan County, Utah



NO SCALE

CERTIFICATION

I certify that on December 30, 1968, copies of Monsanto Company's Application for water disposal into Navajo A-1, McElmo Mesa Field, San Juan County, Utah, were sent by registered mail to the following lessees:

Pan American Petroleum Corporation	Security Life Building, Denver, Colorado 80202
Doyle H. Baird	510 Patterson Building, Denver, Colorado 80202
Warrior Oil Company	918 Patterson Building, Denver, Colorado 80202
Zoller and Danneberg	219 Patterson Building, Denver, Colorado 80202
C. Crady Davis	Guaranty Bank Building, 817 - 17th Street, Denver, Colorado 80202
The Kimbark Company	288 Clayton Street, Denver, Colorado 80206
Walter K. Arbuckle	288 Clayton Street, Denver, Colorado 80206
William R. Thurston	288 Clayton Street, Denver, Colorado 80206
William A. Boyd	288 Clayton Street, Denver, Colorado 80206
The First National Bank of Chicago, Trustee under the Will of Thomas Kenneth Boyd	288 Clayton Street, Denver, Colorado 80206
Marion Boyd Donaldson	288 Clayton Street, Denver, Colorado 80206
Janet W. Boyd	288 Clayton Street, Denver, Colorado 80206
William A. Boyd, Custodian for Katherine Boyd	288 Clayton Street, Denver, Colorado 80206
William A. Boyd, Custodian for Thomas K. Boyd II	288 Clayton Street, Denver, Colorado 80206
Dorothy M. Allbright	288 Clayton Street, Denver, Colorado 80206
William B. Allbright	288 Clayton Street, Denver, Colorado 80206
Elizabeth B. Boyd	288 Clayton Street, Denver, Colorado 80206
Barbara Boyd Mickey	288 Clayton Street, Denver, Colorado 80206
Kimbark Operating Company	288 Clayton Street, Denver, Colorado 80206
Bernard Laudermilk	Box 16, Sterling, Kansas

Certification (Continued)

G. E. Layton

3668 Monaco Parkway, Denver, Colorado

Fred Murphy

Box 266, Fort Morgan, Colorado

Raymond G. Stone

Box 492, Vernal, Utah



E. M. Scholl

State of Colorado)

County of Denver)

ss.

The foregoing instrument was acknowledged before me this 30th day of December 1968,
by E. M. Scholl.


Notary Public

May Commission Expires: October 20, 1969.

EXHIBIT 2

List of Lessee's Within One-Half Mile Radius of Monsanto
Company Navajo A-1 Proposed Injection Well

Pan American Petroleum Corporation	Elizabeth B. Boyd
Doyle H. Baird	Barbara Boyd Mickey
Warrior Oil Company	*Kimbark Operating Company
Zoller and Danneberg	Bernard Laudermilk
C. Crady Davis	G. E. Layton
The Kimbark Company	Fred Murphy
Walter K. Arbuckle	Raymond G. Stone
William R. Thurston	
William A. Boyd	
The First National Bank of Chicago, Trustee under the Will of Thomas Kenneth Boyd	
Marion Boyd Donaldson	
Janet W. Boyd	
William A. Boyd, Custodian for Katherine Boyd	
William A. Boyd, Custodian for Thomas K. Boyd II	
Dorothy M. Allbright	
William B. Allbright	

*Kimbark Operating Company is not a lessee of record but does
operate the interests owned by the Kimbark Company and its assigns.

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EXHIBIT 3

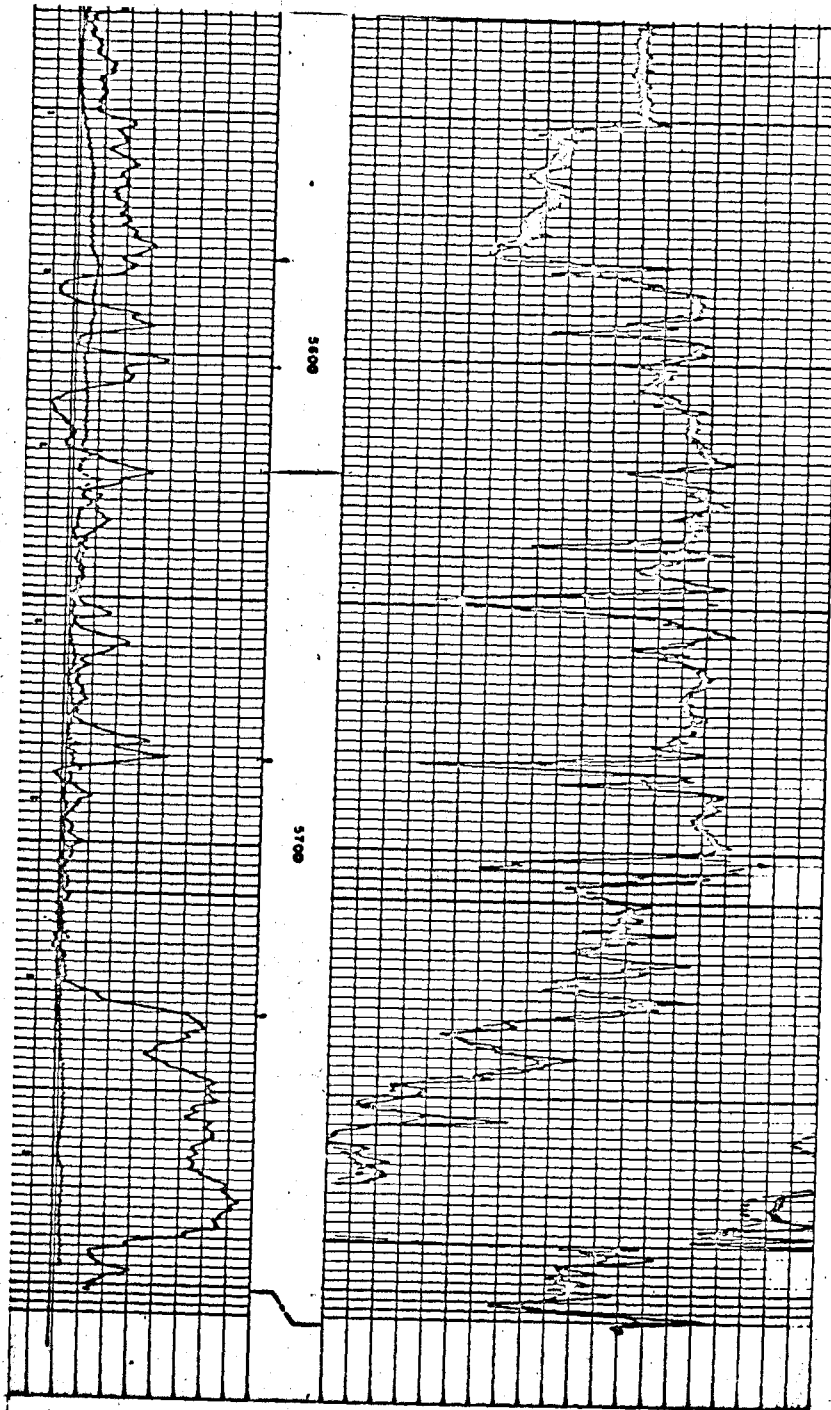
MONSANTO CO.-NAVAJO A-1

Portion of Lane Wells Acoustilog for

Proposed Disposal Well

MC ELMO MESA FIELD

San Juan County, Utah



14

CERTIFICATION

I certify that on December 30, 1968, copies of Monsanto Company's Application for water disposal into Navajo A-1, McElmo Mesa Field, San Juan County, Utah, were sent by registered mail to the following lessees:

Pan American Petroleum Corporation	Security Life Building, Denver, Colorado 80202
Doyle H. Baird	510 Patterson Building, Denver, Colorado 80202
Warrior Oil Company	918 Patterson Building, Denver, Colorado 80202
Zoller and Danneberg	219 Patterson Building, Denver, Colorado 80202
C. Crady Davis	Guaranty Bank Building, 817 - 17th Street, Denver, Colorado 80202
The Kimbark Company	288 Clayton Street, Denver, Colorado 80206
Walter K. Arbuckle	288 Clayton Street, Denver, Colorado 80206
William R. Thurston	288 Clayton Street, Denver, Colorado 80206
William A. Boyd	288 Clayton Street, Denver, Colorado 80206
The First National Bank of Chicago, Trustee under the Will of Thomas Kenneth Boyd	288 Clayton Street, Denver, Colorado 80206
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Janet W. Boyd	288 Clayton Street, Denver, Colorado 80206
William A. Boyd, Custodian for Katherine Boyd	288 Clayton Street, Denver, Colorado 80206
William A. Boyd, Custodian for Thomas K. Boyd II	288 Clayton Street, Denver, Colorado 80206
Dorothy M. Allbright	288 Clayton Street, Denver, Colorado 80206
William B. Allbright	288 Clayton Street, Denver, Colorado 80206
Elizabeth B. Boyd	288 Clayton Street, Denver, Colorado 80206
Barbara Boyd Mickey	288 Clayton Street, Denver, Colorado 80206
Kimbark Operating Company	288 Clayton Street, Denver, Colorado 80206
Bernard Laudermilk	Box 16, Sterling, Kansas

16

Monsanto

HYDROCARBONS & POLYMERS DIVISION

Monsanto Company
Suite 1102 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80203
(303) AComa 2-5641

December 30, 1968

The State of Utah
Oil & Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight
Executive Director

Re: Application for Water Disposal
Monsanto Company Navajo A-1
990' FNL, 1650' FWL Section 5
Township 41 South, Range 26 East
McElmo Mesa Field
San Juan County, Utah

Gentlemen:

Monsanto Company respectfully requests approval to dispose of water into the Ismay Interval of the Navajo A-1 in McElmo Mesa Field, San Juan County, Utah.

Produced water is presently being disposed into Monsanto Navajo A-3 under the provisions of the Commission's Order No. 125-1. Water production now exceeds the capacity of Navajo A-3 and it is necessary to convert Navajo A-1 to disposal service. Navajo A-1 is near its economic limit producing 10 BOPD at 90% water.

In compliance with Rule C-11 the following is submitted:

1. Attached is a plat showing the location of the proposed disposal well including all wells in the McElmo Mesa Area.
2. The names of lessees within one-half mile of the proposed disposal well are also attached.
3. It is proposed to inject water into the Ismay interval of the Paradox formation in the Hermosa Group located from 5626' to 5734' on the Lane Wells Acoustilog. Depths are measured from the rotary bushing elevation of 4937' above sea level. A copy of a portion of this log is attached.
The Ismay interval is a vugular type limestone and dolomite rock.

The State of Utah
Page 2
December 30, 1968

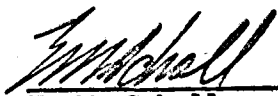
4. A diagram of the casing is attached. Navajo A-1 was drilled in September 1966, and completed with $4\frac{1}{2}$ " casing set with 160 sacks of cement and successfully pressure tested.
5. At the present time, it is proposed to inject about 400 barrels of water per day produced from wells in the McElmo Mesa Field. Maximum anticipated injection rate is 1500 barrels per day. From time to time it may be necessary to dispose of waters from present or future wells in the nearby area but not necessarily in the McElmo Mesa Field.
6. Attached is a certification that copies of this Application have been sent by registered mail to each lessee listed within one-half mile radius of the proposed injection well.

Monsanto Company respectfully submits this Application and hopes the Commission will approve water disposal into Navajo A-1 under the provisions of Rule C-11 of the General Rules and Regulations.

The United States Geological Survey has approved disposal into Navajo A-1 subject to like approval from the Oil and Gas Conservation Commission.

Very truly yours,

MONSANTO COMPANY

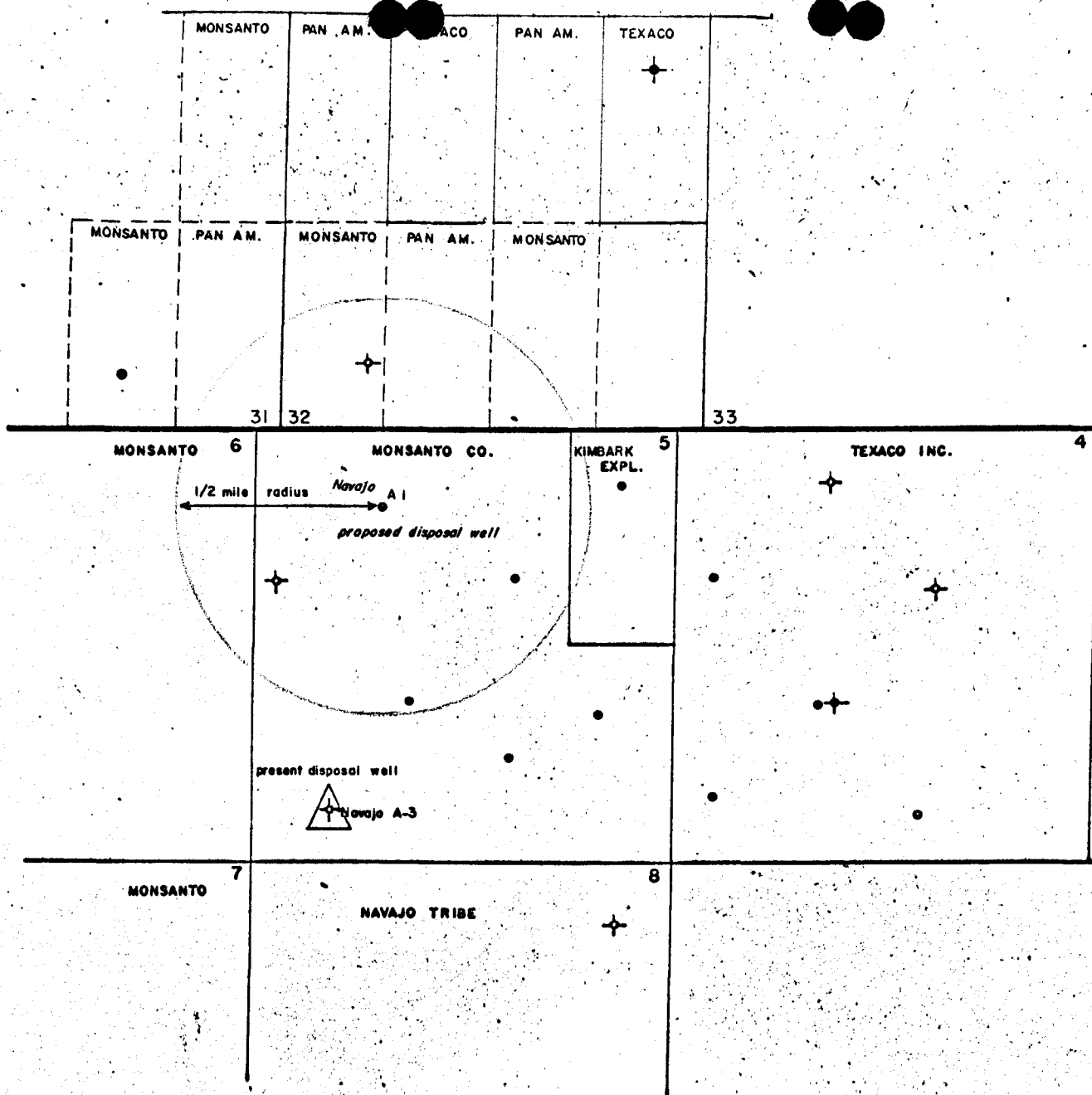


E. M. Scholl

EMS:rp

Attachments

19



MC ELMO MESA FIELD

San Juan County, Utah

Scale : 1" = 2000'

PROPOSED DISPOSAL WELL PLAT

EXHIBIT I

50

EXHIBIT 2

List of Lessee's Within One-Half Mile Radius of Monsanto
Company Navajo A-1 Proposed Injection Well

Pan American Petroleum Corporation

Doyle H. Baird

Warrior Oil Company

Zoller and Danneberg

C. Crady Davis

The Kimbark Company

Walter K. Arbuckle

William R. Thurston

William A. Boyd

The First National Bank of Chicago,
Trustee under the Will of
Thomas Kenneth Boyd

Marion Boyd Donaldson

Janet W. Boyd

William A. Boyd, Custodian for
Katherine Boyd

William A. Boyd, Custodian for
Thomas K. Boyd II

Dorothy M. Allbright

William B. Allbright

Elizabeth B. Boyd

Barbara Boyd Mickey

*Kimbark Operating Company

Bernard Laudermilk

G. E. Layton

Fred Murphy

Raymond G. Stone

*Kimbark Operating Company is not a lessee of record but does
operate the interests owned by the Kimbark Company and its assigns.

2

CERTIFICATION

I certify that on December 30, 1968, copies of Monsanto Company's Application for water disposal into Navajo A-1, McElmo Mesa Field, San Juan County, Utah, were sent by registered mail to the following lessees:

Pan American Petroleum Corporation	Security Life Building, Denver, Colorado 80202
Doyle H. Baird	510 Patterson Building, Denver, Colorado 80202
Warrior Oil Company	918 Patterson Building, Denver, Colorado 80202
Zoller and Danneberg	219 Patterson Building, Denver, Colorado 80202
C. Crady Davis	Guaranty Bank Building, 817 - 17th Street, Denver, Colorado 80202
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Walter K. Arbuckle	288 Clayton Street, Denver, Colorado 80206
William R. Thurston	288 Clayton Street, Denver, Colorado 80206
William A. Boyd	288 Clayton Street, Denver, Colorado 80206
The First National Bank of Chicago, Trustee under the Will of Thomas Kenneth Boyd	288 Clayton Street, Denver, Colorado 80206
Marion Boyd Donaldson	288 Clayton Street, Denver, Colorado 80206
Janet W. Boyd	288 Clayton Street, Denver, Colorado 80206
William A. Boyd, Custodian for Katherine Boyd	288 Clayton Street, Denver, Colorado 80206
William A. Boyd, Custodian for Thomas K. Boyd II	288 Clayton Street, Denver, Colorado 80206
Dorothy M. Allbright	288 Clayton Street, Denver, Colorado 80206
William B. Allbright	288 Clayton Street, Denver, Colorado 80206
Elizabeth B. Boyd	288 Clayton Street, Denver, Colorado 80206
Barbara Boyd Mickey	288 Clayton Street, Denver, Colorado 80206
Kimbark Operating Company	288 Clayton Street, Denver, Colorado 80206
Bernard Laudermilk	Box 16, Sterling, Kansas

22

Certification (Continued)

G. E. Layton

3668 Monaco Parkway, Denver, Colorado -

Fred Murphy

Box 266, Fort Morgan, Colorado

Raymond G. Stone

Box 492, Vernal, Utah



E. M. Scholl

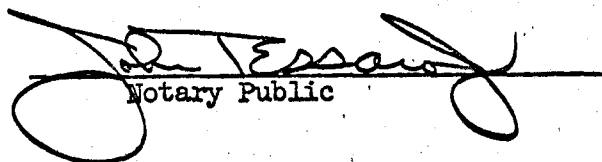
State of Colorado)

County of Denver)

ss.

The foregoing instrument was acknowledged before me this 30th day of December 1968,
by E. M. Scholl.




Notary Public

May Commission expires: October 20, 1969.

25

Monsanto

HYDROCARBONS & POLYMERS DIVISION

Monsanto Company
Suite 1102 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80203
(303) AComa 2-5641

December 30, 1968

The State of Utah
Oil & Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight
Executive Director

Re: Application for Water Disposal
Monsanto Company Navajo A-1
990' FNL, 1650' FWL Section 5
Township 41 South, Range 26 East
McElmo Mesa Field
San Juan County, Utah

Gentlemen:

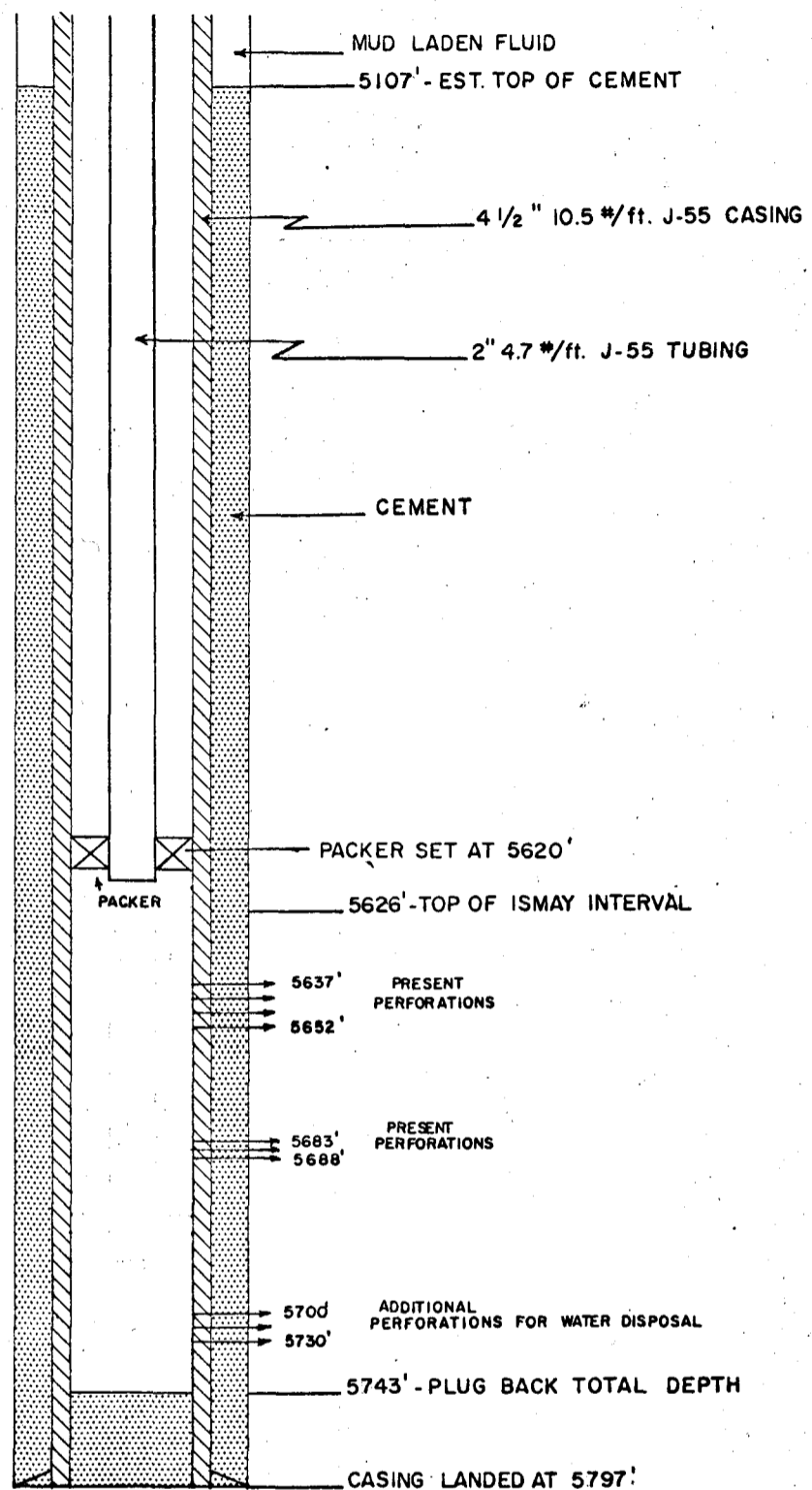
Monsanto Company respectfully requests approval to dispose of water into the Ismay Interval of the Navajo A-1 in McElmo Mesa Field, San Juan County, Utah.

Produced water is presently being disposed into Monsanto Navajo A-3 under the provisions of the Commission's Order No. 125-1. Water production now exceeds the capacity of Navajo A-3 and it is necessary to convert Navajo A-1 to disposal service. Navajo A-1 is near its economic limit producing 10 BOPD at 90% water.

In compliance with Rule C-11 the following is submitted:

1. Attached is a plat showing the location of the proposed disposal well including all wells in the McElmo Mesa Area.
2. The names of lessees within one-half mile of the proposed disposal well are also attached.
3. It is proposed to inject water into the Ismay interval of the Paradox formation in the Hermosa Group located from 5626' to 5734' on the Lane Wells Acoustilog. Depths are measured from the rotary bushing elevation of 4937' above sea level. A copy of a portion of this log is attached. The Ismay interval is a vugular type limestone and dolomite rock.

EXHIBIT 4
CASING DIAGRAM
MONSANTO CO.- NAVAJO A-1
MC ELMO MESA FIELD
San Juan County, Utah



NO SCALE

Mr. Gibbons requested that the Application be amended by substituting the figure 5,944 for the figure 5,904 in the next to the last line on page 1.

Oral and documentary evidence was introduced on behalf of Monsanto Company in support of its Application.

FINDINGS AND CONCLUSIONS

Based upon the evidence presented, the Commission finds and concludes that:

1. The applicant owns interests in a certain oil and gas lease covering, among other property, Section 5, Township 41 South, Range 26 East, S.L.M. San Juan County, Utah. Said Section 5 lies within the McElmo Mesa Field.

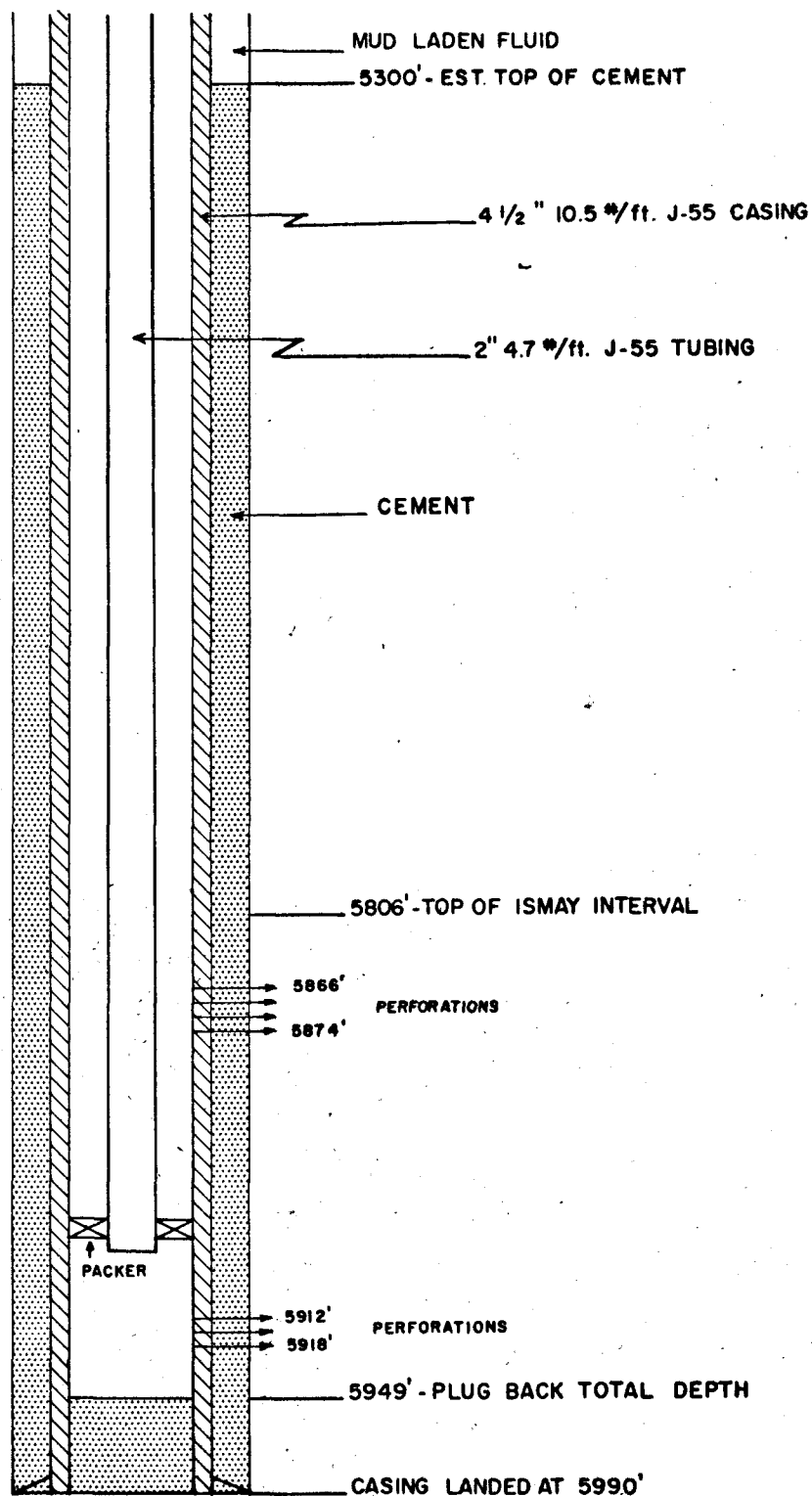
2. Well No. Navajo A-3 is situated within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of said Section 5 and is beyond the oil producing limits of the McElmo Mesa Field. The casing in said Well Navajo A-3 consists of 5,978' of 4 $\frac{1}{2}$ " 10.5 lbs/ft. J-55 casing set at 5,990' from the rotary bushing with 160 sacks of cement. This casing has been successfully pressure tested.

3. The applicant plans to inject into said Well from 420 to 1,500 barrels of water per day. Said water is salt water, brackish water and other water unfit for domestic livestock, irrigation or other general uses which is or will be produced in conducting operations in connection with other wells in the McElmo Mesa Field. The proposed injections shall be made into the Ismay Interval of the Paradox Formation in the Hermosa Group in said Well located from 5,806' to 5,944' on the Schlumberger Gamma Ray-Sonic Log submitted with the application.

4. It may be necessary to dispose of waste water into said Well obtained from wells to be drilled in the McElmo Mesa Field in the future. Any waste water to be disposed of through said Well will be compatible with the fluids existing in the formation into which the injections will be made.

5. The proposed injections will not cause damage to fresh water, oil, gas or other minerals, nor will they cause waste.

EXHIBIT "C"
CASING DIAGRAM
MONSANTO CO.- NAVAJO A-3
MC ELMO MESA FIELD
San Juan County, Utah



NO SCALE

January 15, 1969

Monsanto Company
Suite 1102
1860 Lincoln Street
Denver, Colorado

Attention: Mr. E. M. Scholl

Re: Water Disposal

Dear Ed:

With reference to the application of Monsanto Company to dispose of water into the Ismay interval of the Navajo A-1 Well, McElmo Mesa Field, San Juan County, Utah, no objections having been received, approval as provided for under Rule C-11 is hereby granted.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:cnp

cc: P. T. McGrath, District Engineer
U. S. Geological Survey
Box 959
Farmington, New Mexico

SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
EDWARD T. BECK
E. STEELE MCINTYRE
BOB NORMAN
MARGARET BIRD
HERM OLSEN

September 8, 1981

Mr. J. Gregory Merrion
P.O. Box 507
Farmington, NM 87401

Re: Navajo 1-A (SWD)
Sec. 28, T41S, R26E &
~~7C-1 (SWD)~~
Sec. 20, T42S, R26E
San Juan County, Utah

Dear Mr. Merrion,

Please be aware that under the new Environmental Protection Agency program for Underground Injection Control (UIC), regular inspections will be made of all injection wells within the State of Utah. Therefore, on September 3, 1981, an inspection was made on the above mentioned wells and the following conditions need to be corrected:

- 1) Navajo 1-A - the unit pumping water which is attached to the pump jack has a slight leak which may become worse if the condition is not corrected. Also, the Flo-Trac totalizer was not working but water was being pumped through the lines. The totalizer must be operative in order to obtain the proper cumulative amount of water being injected into the well:
- 2) ~~the~~ the pit was found in poor condition and it needs to be burned-off and lined as to prevent seepage and possible pollution. Water was also leaking from the pump switch located on the producing well location which is next to the water tank. Also, the new totalizer on the injection well and the old totalizer on the producing well location have two different readings and no start-up count was given to determine the exact cumulative amount being injected.

If you have any questions, please feel free to contact this office and I will be happy to answer any questions you may have. Thank you in advance for your cooperation on this matter.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

THALIA R. PRATT
UIC SPECIALIST

J. GREGORY MERRION
PETROLEUM ENGINEER
P. O. Box 507
FARMINGTON, NEW MEXICO 87401

October 7, 1981

Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Thalia R. Pratt

Re: Navajo 1-A (SWD)
Sec. 28, T41S, R26E
#C-1 (SWD)
Sec. 20, T42S, R26E
San Juan County, Utah

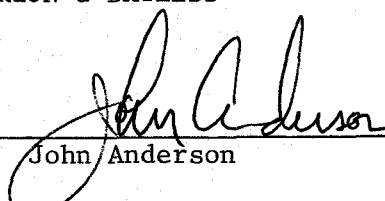
Dear Ms. Pratt:

The problems listed in your letter of September 8, 1981, concerning the captioned wells have all been corrected as of October 6, 1981.

If you have any questions concerning these corrections, please contact me.

Sincerely,

MERRION & BAYLESS


John Anderson
JA/am

RECEIVED
OCT 15 1981
DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

DIVISION OF
OIL, GAS & MINING

IN THE MATTER OF THE APPLICATION OF
Monsanto Oil Company

CAUSE NO. _____

ADDRESS Suite 600, 5613 DTC Parkway,
Englewood, CO ZIP 80111

INDIVIDUAL _____ PARTNERSHIP _____ CORPORATION ☒

FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE Navajo "A" #1 WELL

SEC. 5 TWP. 41S RANGE 26E
San Juan COUNTY, UTAH

ENHANCED RECOVERY INJ. WELL ☐
DISPOSAL WELL ☐
LP GAS STORAGE ☐
EXISTING WELL (RULE I-4) ☒

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name Navajo "A"	Well No. 1	Field South Ismay	County San Juan
Location of Enhanced Recovery Injection or Disposal Well NE, NW Sec. 5 Twp. 41S Rge. 26E			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date Dec. 1968	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile 2600	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What Gas and Oil
Location of Injection Source(s) 5700-5730'	Geologic Name(s) and Depth of Source(s) Paradox - Hermosa		
Geologic Name of Injection Zone Paradox	Depth of Injection Interval 5700' to 5730'		
a. Top of the Perforated Interval: 5700'	b. Base of Fresh Water: 2600'	c. Intervening Thickness (a minus b) 3100'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			
Lithology of Intervening Zones Sandstone, Carbonate			
Injection Rates and Pressures Maximum 1500 B/D 1800 PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			

State of Colorado

County of Arapahoe

K. J. Ebner

Regional Prod. Mgr.

K. J. Ebner

Applicant

K. J. Ebner

Before me, the undersigned authority, on this day personally appeared K. J. Ebner known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 13th day of October, 19 83

SEAL

My commission expires March 15, 1986

Janice A. Smith

Notary Public in and for State of Colorado

(OVER)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8	135'	150	Surface	Returns
Intermediate					
Production	4-1/2	5798'	160	5107	Estimation
Tubing	2-7/8	5626'	Name - Type - Depth of Tubing Packer Baker Loc-Set PSA 5620'		
Total Depth 5797'	Geologic Name - Inj. Zone Paradox-Hermosa		Depth - Top of Inj. Interval 5700'		Depth - Base of Inj. Interval 5730'

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114
(801) 533-5771

INVENTORY OF AUTHORIZED EXISTING ENHANCED RECOVERY WELLS

NAME OF WELL	STATUS*	LOCATION OF WELL	AUTHORIZING ORDER NO.	FORMATION NAME	MAX. AUTH. INJECTION RATE (BPD)	MAX. AUTH. INJECTION PRESS. (PSI)	DEPTH OF INJECTION
S/ Ismay #1		Sec. 5-T41S-R26E		Paradox	1000	1800	5540'-45'
		NE NE					5497'-5502'
							5486'-93'
Navajo "A" #1		Sec. 5-T41S-R26E		Paradox	1500	1800	5700'-30'
		NE NW					
Navajo "A" #3		Sec. 5-T41S-R26E		Hermosa	1500	1800	5912'-18'
		SW SW					

Operator: Monsanto Oil Company, Suite 600

Address: 5613 DTC Parkway
Englewood, CO 80111

*TA = Temp. Aband.
SI = Shut In
Op = Operating

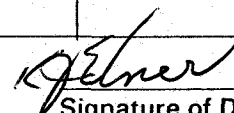
 Regional Production Mgr.
Signature of Duly Authorized Representative
K. J. Ebner
October 13, 1983
Date

EXHIBIT 3

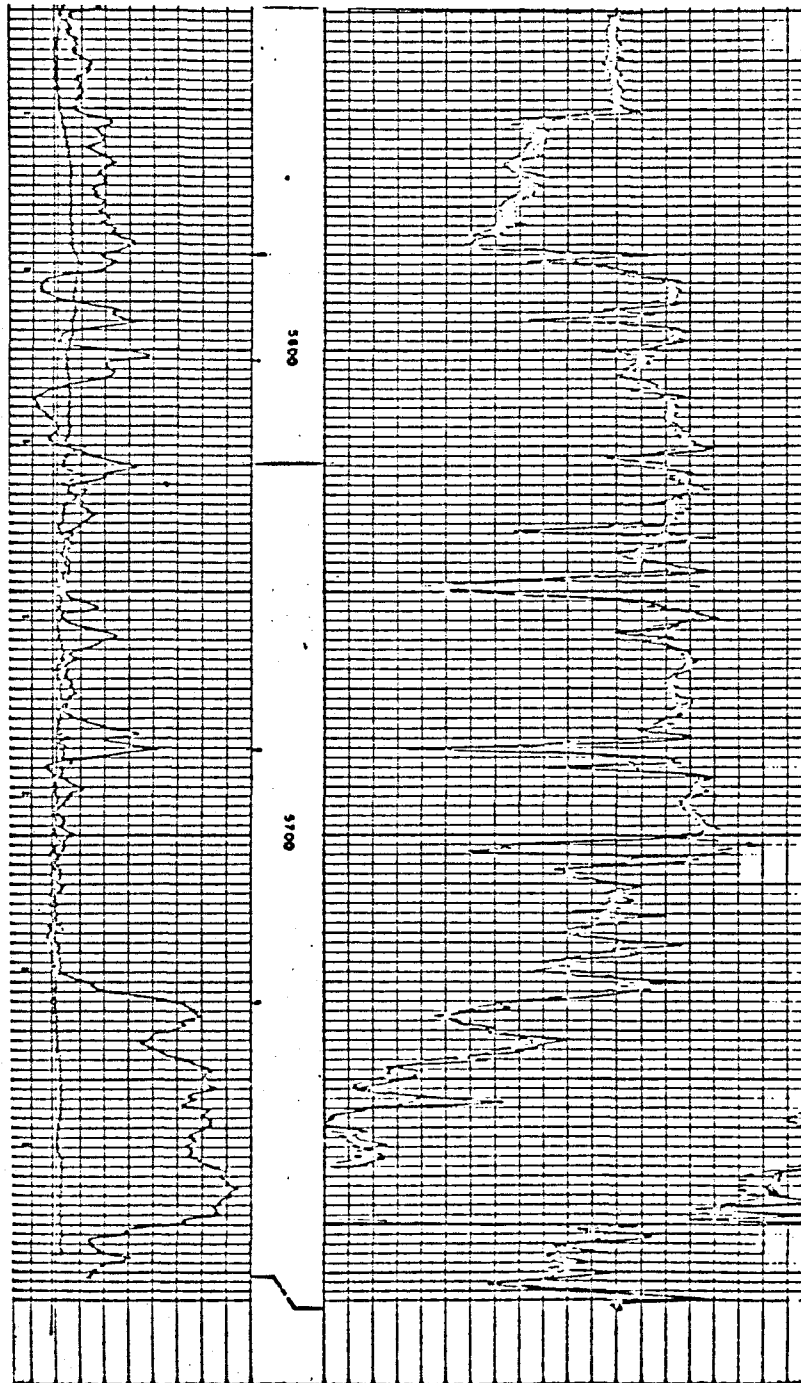
MONSANTO CO.-NAVAJO A-1

Portion of Lane Wells Acoustilog for

Proposed Disposal Well

MC ELMO MESA FIELD

San Juan County, Utah



CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * *

Operator: Monsanto Well No. Narayo A-1
 County: San Juan T 41S R 26R Sec. 5 API# 40-037-20117
 New Well ☐ Conversion ☐ Disposal Well ☒ Enhanced Recovery Well ☐

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<u>✓</u>	
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	
Schematic Diagram	<u>✓</u>	
Fracture Information		<u>✓</u>
Pressure and Rate Control	<u>✓</u>	
Adequate Geologic Information		<u>✓</u>
Fluid Source	<u>Parado</u>	
Analysis of Injection Fluid	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	TDS <input type="checkbox"/>
Analysis of Water in Formation to be injected into	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	TDS <input type="checkbox"/>
Known USDW in area	<u>Narayo</u>	Depth <u>2600</u>
Number of wells in area of review	<u>4</u>	Prod. <u>2</u> P&A <u>2</u>
	Water <u>0</u>	Inj. <u>0</u>
Aquifer Exemption	Yes <input type="checkbox"/> NA <input checked="" type="checkbox"/>	
Mechanical Integrity Test	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	Date <input type="checkbox"/>	Type <input type="checkbox"/>

Comments: To c 5107

Reviewed by: ABJ



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 18, 1984

Monsanto Oil Company
5613 DIC Parkway, Suite 600
Englewood, Colorado 80111

Gentlemen:

RE: McElmo Mesa Field Water Injection

With your permission, I would like to make arrangements to meet with a representative from your company to inspect and gauge the casing tubing annulus pressure on the following water injection wells located in Section 5, Township 41 South, Range 26 East, SLBM, San Juan County, Utah:

Navajo A-1 (NENW)
Navajo A-3 (SWSW)
South Ismay #1 (NENE)

Please have your representative contact me by phone: (801) 533-5771.

Thank you,

C.B. Feight
UIC Manager

CBF/mfp
030

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, Utah 84114

WELL INTEGRITY REPORT

DATE: 5/8/85

COMPANY/OPERATOR Monsanto

Water Disposal Well X Enhanced Recovery Well Other

API Well Number 43-037-20117 Field Name McElmo Mesa

SEC. 5 TOWNSHIP 41S RANGE 26E WELL NAME/NUMBER Navajo A-1

Lease Name/Number 14-20-603-708 Location NE 1/4 of NW 1/4 COUNTY: San Juan

INITIAL CONDITIONS:

Tubing ~~Long string Rate/Pressure:~~ 0 bw/d 0 psi Not injecting

~~Short string Rate/Pressure:~~ bw/d psi

Csg-tbg Annulus Pressure: 0 psi

CONDITIONS DURING TEST:

~~Long string~~ Pressure: 400 psi 60 Minutes Time: 10:22 to 11:22

~~Short string~~ Pressure psi Minutes

Csg-tbg Annulus Pressure 150 psi

Amount of water added to annulus: 48 bbls

AFTER ANNULUS BLEED OFF:

Tubing ~~Long string~~ Pressure: 0 psi

~~Short string~~ Pressure: psi

Csg-tbg Annulus Pressure: 0 psi

REMARKS: Well has been shut-in since 10-28-84. On this date, 5/8/85, an attempt
was made to pressure CTA up to 300 psi. After 1 hour CTA = 150 psi. However, pressure
on tubing = 400 psi. Well has obvious mechanical problems and will remain shut-in
until tubing and packer can be pulled and well repaired.

Howard Jones
Operator Representative (Name)

C.B. Feight
UIC FIELD INSPECTOR (Witness)

UIC FIELD INSPECTOR (Witness)

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: Monsanto Company

FIELD: McElmo Mesa LEASE: NAV. 14-20-603-708

WELL # Navajo A-1 NENW SEC. 5 TOWNSHIP 41S RANGE 26E

STATE FED. FEE DEPTH 5800 TYPE WELL WIW MAX. INJ. PRESS. 3000 psi

TEST DATE 10/23/84

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13 3/8"</u>	<u>135</u>	<u>150</u>	<u>sx</u>	<u>Bradenhead not dug out</u>	
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>	<u>4 1/2"</u>	<u>5797</u>	<u>100</u>	<u>sx</u>	<u>*See remarks</u>	
<u>TUBING</u>	<u>2 7/8"</u>	<u>5626</u>	<u>Pack</u>		<u>**See remarks</u>	

REMARKS: * When valve on CTA opened a condensate type liquid was discharged
Pressure appeared to be moderate. Unable to measure pressure because 2" flow line not
equiped for connecting garage. A reducer and 3" valve will be installed.

** Pressure at pump was 50 psi

Operator has been requested to shut this well in until arrangements
can be made to bleed off the liquids and pressure test.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Shut-in Water Disposal Well		5. LEASE DESIGNATION AND SERIAL NO. 21-000708
2. NAME OF OPERATOR BHP Petroleum Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR 5613 DTC Parkway, Suite 600, Englewood, CO 80111		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Sec. 5-T41S-R26E		8. FARM OR LEASE NAME Navajo 'A'
14. PERMIT NO. 4303720117		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, ST, OR, etc.) JUN 02 1986		10. FIELD AND POOL, OR WILDCAT McElmo Mesa
16. DIVISION OF OIL, GAS, AND MINING		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5-41S-26E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

Check Appropriate Box To Indicate Nature of Notice, Reason, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>Name Change of Operator</u> <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Monsanto Oil Company acquired by BHP Petroleum Company Inc.

18. I hereby certify that the foregoing is true and correct

SIGNED

Bernard A. Wirth
Bernard A. Wirth

TITLE Regional Land Manager

DATE May 30, 1986

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



RECEIVED
APR 22 1987

DIVISION OF
OIL, GAS & MINING

2506 West Main Street
Farmington, New Mexico 87401
Tel. (505) 326-4737

Sample Site: S. Ismay Water Tank
Date Sampled: 03/30/87
Date Received: 03/30/87

Date: 13 April, 1987
Lab No: F4874

Lab pH:.....	6.6
Lab Conductivity, umhos/cm @ 25C.....	168000
Total Dissolved Solids (180), mg/l.....	169000
Total Dissolved Solids (calc), mg/l.....	152000
Sodium Adsorption Ratio.....	114.81
Total Alkalinity as CaCO ₃ , mg/l.....	68
Total Hardness as CaCO ₃ , mg/l.....	32400

	mg/l	meq/l
Bicarbonate as HCO ₃	83	1.36
Carbonate as CO ₃	0	0.00
Chloride.....	92100	2597.49
Sulfate.....	1080	22.46
Calcium.....	8440	420.89
Magnesium.....	2760	226.81
Potassium.....	460	11.76
Sodium.....	47500	2066.12
Major Cations.....		2725.58
Major Anions.....		2621.31
Cation/Anion Difference.....		1.95 %

Trace Metals (Dissolved Concentrations), mg/l

Iron..... 1.88

BHP Petroleum
South Ismay #1
Sec 5, T41S, R26E

NOTICE OF TRANSFER OF OWNERSHIP

Present operator: BHP Petroleum(Americas)Inc. Telephone: 303-850-9090

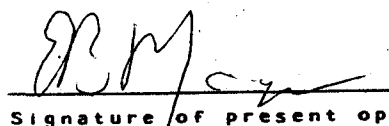
Address: 5613 DTC Parkway Suite 600

City: Englewood State: Co. Zip: 80111

Well no.: 1 & 3 (Navajo A Lease) Field or Unit name: McElmo Mesa

Sec.: 5 Twp.: 41S Rng.: 26E County: San Juan Lease no. 44-20-603-0708

Effective date of transfer: 7/20/87


Signature of present operator

9/3/87
Date

New operator: Cross Creek Corporation

Address: P.O. Box 447 607 S. Miller Ave.

City: Farmington State: N.M. Zip: 87499-0447


Signature of new operator Scott L. Hand

8/24/87
Date

(This space for DOGM approval)

The approval of this transfer is subject to the bonding requirements of Rule R615-3-1 of the Oil and Gas Conservation General Rules.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/8/87
BY: [Signature]

Approved by: _____ Title: _____ Date: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION & SERIAL NO. 14-20-603-708
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Disposal		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal Lease
2. NAME OF OPERATOR Cross Creek Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 1957 Duncan, Ok. 73534		8. FARM OR LEASE NAME Navajo "A"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 990 FNL 1650 FWL At proposed prod. zone		9. WELL NO. 1
10. FIELD AND POOL, OR WILDCAT McElmo Mesa		11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA NENW 5,41S, 26E
14. API NO. 43-037-20117	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
(Other) Annual Report of Shutin Well		DATE OF COMPLETION _____	
APPROX. DATE WORK WILL START _____			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

Flow lines have been stolen and well needs to be reworked. This will be done as soon as funds are available.

Accepted by the State
of Utah Division of
Oil, Gas and Mining
Date: 1-22-90
By: For Record only

OIL AND GAS	
OPN.	FWS
JDS	1 - GLH
DTG	SLS
2-TAS	
3- MICROFILM	
4- UIC FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED <u>[Signature]</u>	TITLE <u>Production Clerk</u>	DATE <u>1/12/90</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

Federal Approval of this
Action is Necessary

See Instructions On Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Stock Tank Vapor Test		5. LEASE DESIGNATION & SERIAL NO. 14-20-603-708	
2. NAME OF OPERATOR Cross Creek Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P.O. Box 1957, Duncan, Ok. 73534-1957		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Resort location clearly and in accordance with any State requirements.) Cross Creek Corp.		8. FARM OR LEASE NAME South Ismay	
43-037-20072 South Ismay #3 - PW		9. WELL NO.	
43-037-20134 South Ismay #5 - SOW		10. FIELD AND POOL, OR WILDCAT McElmo Mesa	
43-037-20087 South Ismay #4 - SOW		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5, 41s, 26e	
43-037-16269 South Ismay #1 - WIW		12. COUNTY San Juan	
43-037-20117 Navajo A-1 - WDW		13. STATE UT.	
43-037-20164 Navajo A-3 - WIW			

(F, GR, etc.)

re of Notice, Report or Other Data

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Stock Tank Vapor Test	<input checked="" type="checkbox"/>		

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

DATE OF COMPLETION 12-17-90

all pertinent details, and give pertinent dates, including estimated date of locations and measured and true vertical depths for all markers and zones

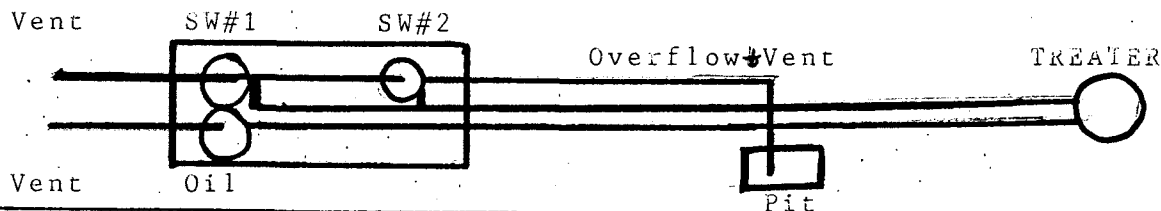
pertinent to this work.)

* Must be accompanied by a cement verification report.

Kiva Measuring, Inc.
49 Road 5500
Bloomfield, N.M. 6322762

Gastec Precision Gas Protector System
Gas Analysis H2S
Extra Low Range 10 to 120 PPM

Produced Water Tank #2 21 PPM
Produced Water Tank #1 13 PPM
Produced Oil Tank 3 PPM



18. I hereby certify that the foregoing is true and correct

SIGNED

Dorinda Hand

TITLE

Clerk

DATE

12-19-90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION & SERIAL NO. 14-20-603-708
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Annual Report of Shutin Wells		6. IF INDIAN ALLOTTEE OR TRIBE NAME Navajo Tribal
2. NAME OF OPERATOR Cross Creek Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 1957 Duncan, Ok. 73534		8. FARM OR LEASE NAME South Ismay/Navajo 'A'
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 990 FNL 1650 FWL At proposed prod. zone		9. WELL NO. 'A' 1
10. FIELD AND POOL, OR WILDCAT McElmo Mesa		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NENW 5, 41S, 26E
14. API NO. 4303720117	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY San Juan
		13. STATE Ut

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐
 FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐
 SHOOT OR ACIDIZE ☐ ABANDON ☐
 REPAIR WELL ☐ CHANGE PLANS ☐
 (Other) _____

Annual Report of Shutin Wells

APPROX. DATE WORK WILL START _____

WATER SHUT-OFF ☐ REPAIRING WELL ☐
 FRACTURE TREATMENT ☐ ALTERING CASING ☐
 SHOOTING OR ACIDIZING ☐ ABANDONMENT* ☐
 (Other) _____
 (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

DATE OF COMPLETION _____

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

Working with EPA on plan to re-establish well as disposal.

RECEIVED

MAR 14 1991

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Theresa Hand TITLE Clerk DATE 3/12/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Disposal Wells		3. LEASE DESIGNATION & SERIAL NO. 14-20-603-708
2. NAME OF OPERATOR Cross Creek Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribe
3. ADDRESS OF OPERATOR P.O. Box 1957 Duncan, Ok. 73435		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 990 s/n 1650 e/w #1 At proposed prod. zone 660 n/s 958 e/w #3		8. FARM OR LEASE NAME Navajo "A"
14. API NO. 43-037-20017-#1		9. WELL NO. #1 & #3
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT McElmo Mesa
16. 43-037-20164 #3		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5, 41S, 26E
12. COUNTY San Juan		13. STATE Ut

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

APPROX. DATE WORK WILL START

DATE OF COMPLETION

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

Propose to go into A#1 with new tubing and packer. If well test ok, will put back in operation. If not, the casing will be repaired by locating the holes and squeezing cement to seal and test again.

Propose to re-enter A#3 and unseat the packer, check the tubing and replace as needed. Set a new packer and test the casing. If not repairable, will follow up with a plan to plug and abandon.

The above work is proposed to be accomplished by July 1, 1992.

Accepted by the State
of Utah Division of
Oil, Gas and Mining

Date: 3-11-92

By: *[Signature]*

RECEIVED

FEB 26 1992

DIVISION OF

OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct.

SIGNED

[Signature]

TITLE Field Supervisor

DATE 2/20/92

(This space for Federal or State office use)

APPROVED BY

Federal Approval of this
Action is Necessary

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION & SERIAL NO. 14-20-603-708
1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
2. NAME OF OPERATOR Cross Creek Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 1957, Duncan, Ok. 73534 405-255-8118		8. FARM OR LEASE NAME Navajo "A"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 990' s/n 1650' e/w At proposed prod. zone		9. WELL NO. #1
14. API NO. 20117 43-037-20017		10. FIELD AND POOL, OR WILDCA McElmo Mesa
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NW Sec 5, 41s, 26E
12. COUNTY San Juan		13. STATE Ut.

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION 7/16/92	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

6/26/92

Pulled old tubing, ran scraper, acidized, replaced tubing and packer. Pressured and tested. MIT passed by E.P.A. 7/3/92. Replaced line pipe and started injecting production water 7/17/92.

* Must be accompanied by a cement verification report.

RECEIVED

JUL 23 1992

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Theresa Dand

TITLE Clerk

DATE 7/17/92

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

PHONE CONVERSATION DOCUMENTATION FORM

☒ This is the original form ☐ or a copy ☐

☒ Route this form to:

☐ WELL FILE _____

☐ SUSPENSE

☒ OTHER

Section _____ Township _____ Range _____

Return date _____

OPERATOR FILE

API number _____

To: initials _____

CC: JRB

Date of phone call: 2-2-00

Time: 10:47 AM

DOGM employee (name) KRISTEN RISBECK

Initiated call? ☐

Spoke with:

Name BERTHA SPENCER

Initiated call? ☐

of (company/organization) BIA/WINDOW ROCK AZ

Phone no. (520) 871-5938

Topic of conversation: 1420603708 LEASE; WHO IS THE OPERATOR OF THE LEASE?

Highlights of conversation: PER MS. SPENCER OF THE BIA, THE TRIBE DENIED KRYSTAL ENERGY FROM TAKING OVER THE LEASE. CROSS CREEK IS NO LONGER THE OPERATOR DUE TO NOT INCREASING THEIR BOND PER THE BIA.

THE OPERATOR (CURRENT LESSEE) RECOGNIZED BY THE BIA IS AMOCO PRODUCTION COMPANY. AMOCO IS NOW RESPONSIBLE FOR THE ABOVE LEASE.

MS. SPENCER INFORMED ME THAT AMOCO IS PLANNING ON PLUGGING THE WELLS. I REQUESTED SOME FORM OF DOCUMENTATION REGARDING THE INFORMATION; SHE WILL FAX A LETTER SHE SENT TO KRYSTAL ENERGY (SEE ATTACHED)

AUTOMATIC TELEFAX

DATE: February 3, 2000

LOCATION: BUREAU OF INDIAN AFFAIRS
Navajo Area Office (Mail Code: 543)
Window Rock, Arizona 86515

INFORMATION OR ASSISTANCE NO.: (520) 871-5938

NUMBER OF DOCUMENTS (Including cover sheet): 2

TO THE ATTENTION OF: Kirsten Risbeck - Utah Oil & Gas Mining

Office Phone Number: (801) 538-5281

TELEFAX NO.: (801) 359-3940

FROM: Bertha Spencer, Realty Specialist - Minerals & Mining Section

Office Phone Number: (520) 871-5938

Telefax Number: (520) 871-5943

MESSAGE OR INSTRUCTIONS: Attached is a copy of the letter that went to Krystal Energy. If you have any questions, you can call me at the above number.

FAXED BY: B. Spencer TIME: 11:00 hr

XXXXXXXXXXXXXX
NAVAJO REGION
P. O. BOX 1060
Gallup, New Mexico 87305-1060

RRES/543

DEC 08 1999

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Bruce Nicholson
Krystal Energy
P.O. Box 3897
Window Rock, Arizona 86515

Dear Mr. Nicholson:

We are returning the proposed Assignment of Mining Lease for Navajo Tribal Oil and Gas Lease No. 14-20-603-708 between Amoco Production Company and Krystal Energy, Inc. and the proposed Assignment of Oil and Gas Lease Operating Rights between Cross Creek Corporation and Krystal Energy, Inc., without action.

By letter dated October 20, 1999 from the Navajo Nation Minerals Department, we have been advised not to process the above proposed assignments for approval at this time because Krystal Energy is currently not eligible to obtain a lease under the Navajo Nation law and due to other concerns of the Navajo Nation.

Therefore, upon receipt of this notice, you are directed to immediately cease all operation on the above lease. By a copy of this letter, the current lessee, Amoco Production Company, is instructed to immediately take over operation of the subject lease.

If you have any questions, please contact Ms. Bertha Spencer, Realty Specialist at (520) 871-5938 or Bimal Shrestha of Navajo Nation Minerals Department office at (520) 871-6587

Sincerely,

GENNI DENETSONE

Regional Director

Enclosures

cc: Amoco Production Company, POB 800, Denver, CO. 80222 - CERTIFIED MAIL
Navajo Nation Minerals Department
Bureau of Land Management, Attn: Steve Mason, Farmington Field Office
Linda Taylor, SH/RES

Reverse
The gummed strip on the back of a post office service
envelope is used to attach the envelope to a post office service
envelope.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

FILED
3/3/2000

43-037-20117

March 3, 2000

Ms. Bertha Spencer
Bureau of Indian Affairs
Navajo Area Office (Mail Code: 543)
Window Rock, Arizona 86515

Re: Oil & Gas Operations on Lease No. 14-20-603-708

Dear Ms. Spencer:

It was recently brought to my attention that the B.I.A. has returned, without action, a proposed Assignment of Mining Lease for the above referenced Navajo Tribal Oil and Gas Lease between Amoco Production Company and Krystal Energy, Inc., along with a proposed Assignment of Oil and Gas Lease Operating Rights between Cross Creek Corporation and Krystal Energy, Inc. The Bureau has also instructed Amoco, as current lessee, to immediately take over operation of the lease.

The Division of Oil, Gas and Mining intends to contact Amoco to request that they commence submitting various production and status reports for wells located on this lease. Our files, however, do not contain any documentation regarding lease assignments, or of Amoco's involvement with this lease. I am therefore writing to request, if possible, that copies be sent to the Division of any B.I.A. records pertaining to the following matters:

1. Documents that identify Amoco as the current lessee;
2. Documents that show which wells Amoco is responsible for (our records indicate that there are three oil wells and three water disposal wells located in this lease area);
3. Any monthly production and injection reports pertaining to the wells in this lease that are in your possession or readily available to you for the reporting periods of April 1999 to present.

Page 2
Ms. Bertha Spencer
Lease No. 14-20-603-708
March 3, 2000

Your assistance in obtaining copies of these records will be greatly appreciated. If there are costs or complications pertaining to this request, please feel free to contact me at 801-538-5275, or by email at dstaley@state.ut.us. Thank you very much.

Sincerely,

A handwritten signature in black ink that reads "Don Staley". The signature is fluid and cursive, with a long horizontal line extending from the "D" across the "Staley" part.

Don Staley
Information Services Manager
Oil and Gas

cc: J.R. Baza
K.D. Risbeck
Well Files:

South Ismay 1 (API 43-037-16269) 5-41S-26E
South Ismay 3 (API 43-037-20072) 5-41S-26E
South Ismay 4 (API 43-037-20087) 5-41S-26E
South Ismay 5 (API 43-037-20134) 5-41S-26E
Navajo A-1 (API 43-037-20117) 5-41S-26E
Navajo A-3 (API 43-037-20164) 5-41S-26E

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
14-20-603-708

6. If Indian, Altona or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

8. Well Name and No.
NAVAJO A #1

9. API Well No.
43-037-20117

10. Field and Pool, or Exploratory Area
MCILMO MESA

11. County or Parish, State
SAN JUAN, UT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other WATER INJECTION WELL

2. Name of Operator
AMOCO PRODUCTION COMPANY ATTN: MARY CORELY

3. Address and Telephone No.
P.O. BOX 3092 HOUSTON, TX 77253 (281) 366-4491

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1650' FNL, 1650' FEL
SECTION 11, T-28N, R-9W UNIT G
5 413 26E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BP AMOCO PLUGGED AND ABANDONED THE ABOVE WELL WITH THE PROCEDURES APPROVED ON 3-30-1998.

SEE ATTACHED PLUGGING REPORT.

ENTERED
AFMSS

Approved as to plugging of the well bore.
Liability under bond is retained until
surface restoration is completed.

RECEIVED
FEB 4 2003
DIV OF OIL, GAS & MINING

200 OCT 15 PM 2:46
070 FARMINGTON

14. I hereby certify that the foregoing is true and correct

Signed Mary Corely [map] Title SE Business Analyst Date 9-29-00

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

OCT 16 2000

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FARMINGTON COPY

**P&A OPERATION
CEMENT SERVICE REPORT****WELL NAME: NAVAJO A #1****TOTAL PLUGS SET: 6****DATE STARTED: 09-11-00****TOTAL SACKS USED: 407 sx****DATE COMPLETED: 09-21-00****BLM WITNESS: M. KECMAN
OPERATOR WITNESS: R. CANDELARIA**

ONE CALLED LOCATION, SWEEP LOCATION FOR LINES, PULL TESTED ANCHORS. MOL AND RU RIG AND PLUGGING EQUIPMENT. RU RELIEF LINES AND OPEN TBG AND CSG VALVES. WELL WAS DEAD ON BOTH SIDES. ND WELLHEAD AND NU BOP. RELEASED PACKER AND STRAP OUT WITH 5149.35' OF 2 7/8" TBG. TBG FAILED VISUAL INSPECTION. LD 2 7/8" TBG AND LD PACKER.

PLUG #1 (ISMAY, 5429' - 5627'), RIH W/ 4 1/2" GAUGE RING AND TAGGED AT 5144'. POH. RIH W/ SINKER BAR TO AND 2" GAUGE RING AND TAGGED FILL AT 5625'. POH. PU AND STRAP IN HOLE W/ 2 3/8" WORK STRING TO 5627'. CIRCULATED HOLE CLEAN W/ WATER. BALANCED 15 SX CL. B CEMENT INSIDE CSG. PUH AND WOC. TAGGED TOC AT 5346'. ATTEMPTED TO PRESSURE TEST CSG TO 500 PSI, BUT CSG FAILED.

PLUG #2 (HERMOSA, 4554' - 4720'), RIH AND PERFORATED SQUEEZE HOLES AT 4720', POH. RIH AND SET RETAINER AT 4679'. ESTABLISHED INJECTION RATE AT 1 BPM WITH 1750 PSI. MIXED 56 SX AND PLACED 46 SX BELOW AND 10 SX ABOVE RETAINER, CSG COMMUNICATED ABOVE RETAINER, HAD TO CLOSE CSG VALVE TO PLACE CMT BEHIND CSG. POH.

PLUG #3 (DECHELLE, 2459' - 2850'), RIH AND PERFORATED SQUEEZE HOLES AT 2850', POH. RIH AND SET RETAINER AT 2799'. DUG OUT BRADON HEAD VALVE AND RU TO PIT, BACKSIDE WAS ON A VACUUM. ESTABLISHED INJECTION RATE INTO PERFORATIONS W/ WATER AT .25 BPM WITH 1750 PSI. MIXED 50 SX PLACING 24 SX BELOW AND 26 SX ABOVE RETAINER, SQUEEZING PERFORATIONS TO 1500 PSI. POH.

PLUG #4 (CHINLE, 1466' - 1693'), RIH WITH WIRELINE AND PERFORATED SQUEEZE HOLES AT 1693', POH. RIH AND SET RETAINER AT 1643'. ESTABLISHED INJECTION RATE INTO PERFORATIONS WITH WATER AT 2 BPM WITH 1250 PSI. MIXED 106 SX CL. B CEMENT, PLACING 92 SX BELOW AND 14 SX ABOVE RETAINER, SQUEEZING PERFORATIONS TO 500 PSI. CIRCULATION WAS NOT SEEN AT SURFACE. POH.

PLUG #5 (SHOE, 100' - 185'), RIH AND PERFORATED SQUEEZE HOLES AT 185'. CIRCULATED HOLE WITH 50 BBL FRESH WATER. RETURNS DID NOT CLEAR UP. MIXED 126 SX AND RECEIVE MUD TO SURFACE. WAIT ON ORDERS FROM BLM. DISPLACED 4 1/2" CSG TO 100'. DISPLACE 13 3/8" x 4 1/2" ANN. TO 100'. SHUT IN AND WOC. NOTE: RETURN SHOWED UP IN CELLAR IDENTIFYING 13 3/8" CSG FAILURE. RIH WITH WIRELINE AND TAGGED TOC AT 68'.

PLUG #6 (SURFACE, 0' - 68'), PERFORATED SQUEEZE HOLE ATE 68'. CIRCULATED HOLE CLEAN WITH WATER OUT THE BRADON HEAD. MIXED 54 SX TO CIRCULATE GOOD CEMENT TO SURFACE. RD FLOOR AND DUG CELLAR. CUT OFF WELLHEAD AND INSTALLED DRY HOLE MARKER.

**NATHAN E. CRAWFORD.
P&A SUPERVISOR**

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File _____

(Loc.) Sec _____ Twp _____ Rng. _____
(API No.) _____

☐ Suspense
(Return Date) _____
(To-Initials) _____

☒ Other
South Ismay 1
Nevejo A-1
Nevejo A-3
Inj. Files
Compliance File

1. Date of Phone Call: 1-30-03 Time: 10:00

2. DOGM Employee (name) J. Cordova (☒ Initiated Call)
Talked to:
Name Lee Askelson (☐ Initiated Call) - Phone No. (415) 972-3541
of (Company/Organization) EPA (SF)

3. Topic of Conversation: missing injection volumes & annual reports
(operatorship, Cross Creek Resources or Krystal Energy?)

4. Highlights of Conversation: _____
Lease 14-20-603-708 (Lease Amoco Prod. Co.)
No injection for April-Dec. 1999
No injection for Jan-Dec. 2000
Wells PA'd by Amoco 10/2000 & 9/2000. (No PA info. available)
Steve Mason (BLM - Farmington Nm) 505-599-6364
No injection info. for above months.
Will fax PA info. 2-4-2003 (Rec'd 24-03 see well files)
BLM awaiting surface restoration.
Cross Creek Res. was the designated operator, Krystal Energy
never approved as operator. (Amoco Prod. Co. - Leasee)